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HANFORD SITE GROUND-WATER  
SURVEILLANCE FOR 1989

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## SUMMARY

The Pacific Northwest Laboratory (PNL) assesses the impacts of Hanford operations on the environment for the U.S. Department of Energy (DOE). The impact Hanford operations has on ground water is evaluated through the Hanford Site Ground-Water Surveillance program. The assessment is performed independent of other onsite ground-water monitoring programs, including the Hanford Site Operating Contractor's programs, to comply with regulatory requirements and to monitor facility operations. While the assessment is performed independently, data collected by all ground-water monitoring programs at Hanford are used. Other programs at Hanford include

- a program to comply with the Resource Conservation and Recovery Act (RCRA) (Smith and Gorst 1990)
- an evaluation of water quality in and around the 200 Areas conducted by Westinghouse Hanford Company to ensure compliance with DOE monitoring guidelines, to assess the performance of waste disposal and storage facilities, and to determine the impacts of operations on the ground water (Serkowski and Jordan 1989), and
- a survey of drinking water sources at Hanford conducted by the Hanford Environmental Health Foundation (Somers 1989).

In addition to these programs that collected ground water samples during 1989, a program to comply with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA) has been initiated. Information on ground-water quality generated by this program will be used for ground-water surveillance when it becomes available.

Five hundred and sixty-seven wells were sampled during 1989 for Hanford ground-water monitoring activities. This report contains a listing of analytical results for calendar year (CY) 1989 for species of importance as potential contaminants.

Radiological monitoring results indicated that gross alpha, gross beta, tritium, cobalt-60, strontium-90, technetium-99, iodine-129, and cesium-137 concentrations in ground water of the unconfined aquifer in or near operating areas were at levels above the U.S. Environmental Protection Agency's (EPA) Maximum Contaminant Level (MCL). Concentrations of uranium (total) in the

200-West Area were above the Derived Concentration Guide (DCG) defined by DOE. Concentrations of tritium in the 200 Areas and strontium-90 in the 100-N and 200-East Areas were also above the DCG. Any ground-water concentrations of iodine-131 and ruthenium-103 remained below detectable levels as a result of the N Reactor continuing in cold standby mode. Tritium continued to move slowly with the general ground-water flow. The tritium plume originating in the 200-East Area continued to discharge to the Columbia River.

Certain chemicals regulated by the Environmental Protection Agency (EPA) and the State of Washington Department of Ecology were also present in Hanford ground water near operating areas. Nitrate concentrations exceeded the MCL at isolated locations in the 100, 200, and 300 Areas and in several 600 Area locations. Chromium concentrations were above the MCL at 100-D, 100-H, and 100-K Areas, and the surrounding areas. Chromium concentrations above the MCL were also found in the 200-East and 200-West Areas. Cyanide was detected in ground water north of the 200-East Area. High concentrations of carbon tetrachloride were found in wells in the 200-West Area. Trichloroethylene was found at levels exceeding the MCL at wells in and near the 100-F Area, 300 Area, and Solid Waste Landfill. Sampling at monitoring wells near Richland water supply wells showed that concentrations of regulated ground-water constituents in this area are below the MCL and in general below detection levels.

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## 1.0 INTRODUCTION

The U.S. Department of Energy's (DOE's) Hanford Site is located in a rural region of southeastern Washington and occupies an area of about 1450 km<sup>2</sup>. The Site (Figure 1.1) lies about 320 km northeast of Portland, Oregon, 270 km southeast of Seattle, Washington, and 200 km southwest of Spokane, Washington. The Columbia River flows through the northern edge of the Site and forms part of the eastern boundary. The southern boundary of the Site includes the Rattlesnake Hills, which exceed 1000 m in elevation. Both confined and unconfined aquifers are present beneath the Site. The main geologic units are the Columbia River Basalt Group, the Ringold Formation, and a series of glaciofluvial sediments. The Hanford Project was established in 1943 and was originally designed, built, and operated to produce plutonium for nuclear weapons. Additional information on Site geology, hydrology and operations are presented by Jaquish and Bryce (1990).

The Pacific Northwest Laboratory<sup>(a)</sup> (PNL) assesses the impacts of Hanford operations on the ground water for the U.S. Department of Energy (DOE). This assessment is performed independent of other onsite ground-water monitoring programs, including the Hanford Site Operating Contractor's programs, to comply with regulatory requirements and to monitor facility operations. While PNL's assessment is performed independently, data collected for all ground-water monitoring programs at Hanford are used by PNL for an integrated assessment of ground-water quality across the Site. This independent program is conducted to comply with the environmental surveillance portions of DOE Order 5400.1.

DOE Order 5400.1 was issued November 9, 1988, and establishes new directions for environmental protection programs at DOE facilities (DOE 1988). The Order states that environmental surveillance will be conducted to monitor the effects, if any, of DOE activities to onsite and offsite environmental and natural resources. The program described in this ground-water monitoring report has been altered to meet the requirements established for environmental

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(a) The Pacific Northwest Laboratory is operated for the U.S. Department of Energy by Battelle Memorial Institute under Contract DE-AC06-76RL0 1830.

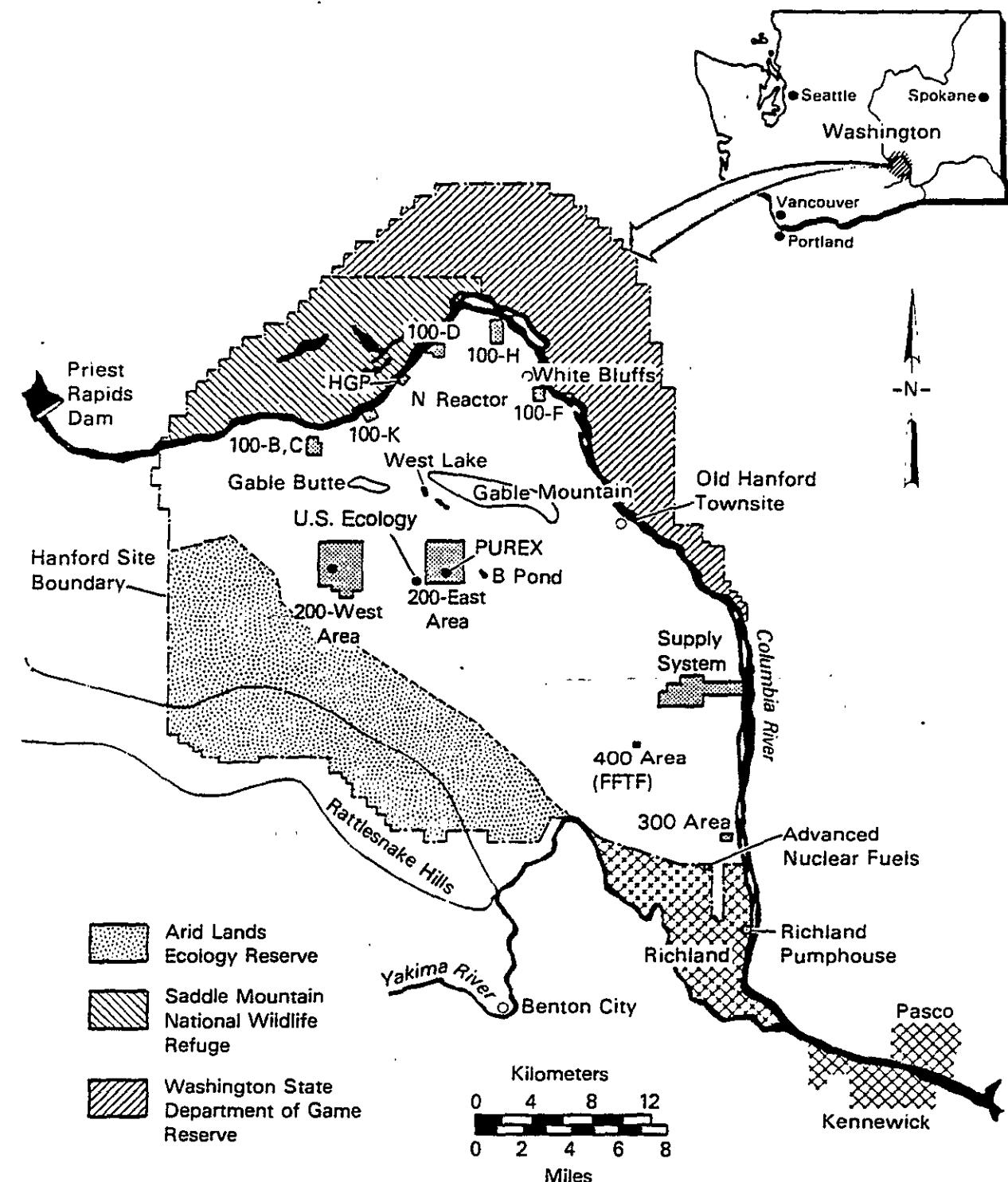


FIGURE 1.1. Hanford Site Location Map

surveillance of ground water. The environmental surveillance program is to be designed to satisfy one or more of the following program objectives as identified in the DOE order:

- verify compliance with applicable environmental laws and regulations
- verify compliance with environmental commitments made in environmental impact statements, environmental assessments, safety analysis reports, or other official DOE documents
- characterize and define trends in the physical, chemical, and biological condition of the environment
- establish baselines of environmental quality
- provide a continuing assessment of pollution abatement programs
- identify and quantify new or existing environmental quality problems.

These general objectives have been modified in response to Hanford Site specific issues to the following:

- comply with ground-water environmental surveillance and reporting requirements of DOE orders
- identify and quantify existing, emerging, or potential ground-water quality problems
- review all ground-water quality data gathered on the Hanford Site to prepare an integrated assessment of the condition of the ground water
- assess the potential for contaminants to migrate from the Hanford Site through the ground-water
- characterize the ground-water flow system as needed to support other program objectives.

This annual report of ground-water surveillance activities provides discussions and listings of results for ground-water monitoring at the Hanford Site during 1989. The discussions and data listings presented here are more detailed than those presented in the Hanford Site Environmental Monitoring Report for Calendar Year 1989 (Jaquish and Bryce 1990). Water level monitoring results for 1989 are discussed in a separate report (Newcomer et al. 1990). Additional discussions of the hydrology and geology of the Site,

operational activities, and sampling, analysis, and distributions of average constituent concentrations during 1989 are included in the environmental monitoring annual report by PNL (Jacquish and Bryce 1990). In addition, Westinghouse Hanford Company reports operational monitoring results for the 200 Areas and some of the surrounding 600 Area (Serkowski and Jordan 1989). Resource Conservation and Recovery Act (RCRA) monitoring results are documented in annual reports (e.g., Smith and Gorst 1990). Work has been initiated at Hanford to comply with the Comprehensive Environmental Response, Compensation and Liability Act (CERCLA). Work plans have been prepared for several inactive waste sites (e.g., DOE 1989). Information gathered from these efforts will be available in the future reports.

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## 2.0 RADIOLOGICAL AND CHEMICAL GROUND-WATER MONITORING

### 2.1 DATA COLLECTION

The network of wells used to collect ground-water samples for the Hanford Ground-Water Surveillance Project is a combination of several networks that have been designed for facility-specific, operational, and ground-water environmental surveillance activities. These networks are made up primarily of wells open to the unconfined aquifer. The basis for selecting wells, sampling frequencies, and constituents to be analyzed is different for each of these projects based on the project objectives. The sampling schedules for the operational and facility-specific networks (RCRA monitoring) are reviewed by ground-water surveillance project staff in the context of environmental surveillance needs. A supplemental monitoring network is developed each year to meet the objectives of the Ground-Water Surveillance Program.

#### 2.1.1 Facility-Specific Monitoring

Well networks have been established for Westinghouse Hanford Company around specific waste disposal facilities during the past 5 years to comply with RCRA requirements. Facility-specific activities include sampling programs at sites listed in Table 2.1.

The requirements for monitoring well design and location, constituents to be sampled, and sampling frequencies for facility-specific monitoring networks are specified in RCRA regulations (40 CFR 265) and by Washington Administration Code (WAC 173-303 and -304). As specified, ground-water monitoring systems at each site must consist of at least one monitoring well hydraulically upgradient and at least three monitoring wells downgradient of the facility. The location, depth, and number of wells included in the network must be adequate to ensure that results obtained to evaluate the migration of contaminants to the uppermost aquifer are statistically significant. The RCRA regulations require that ground water be sampled and analyzed for 1) drinking water parameters, 2) parameters that establish ground-water quality, and 3) parameters used as indicators of ground-water contamination. Samples are also analyzed for contaminants known to have been disposed at the facility.

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**TABLE 2.1. Waste Disposal Facilities with Ongoing**  
**Sampling Projects, December 1989**

183-H Solar Evaporation Basins  
1301-N Liquid Waste Disposal Facility  
1324-N Surface Impoundment and 1324-NA Percolation Pond  
1325-N Liquid Waste Disposal Facility  
216-A-10 Crib  
216-A-29 Ditch  
216-A-36B Crib  
200 Areas Low-Level Burial Grounds  
2101-M Pond  
300 Area Process Trenches  
Nonradioactive Dangerous Waste (NRDW) Landfill  
Solid Waste Landfill  
216-B-3 Pond  
Grout Treatment Facility

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being monitored based on records of operations. The frequency of sampling for each parameter is also specified in the RCRA regulations, based on the status of permitting of the facility (e.g., interim status, permitted status). Annual reports (e.g., Smith and Gorst 1990) document monitoring networks and analytical plans for these RCRA sites.

#### 2.1.2 Operational Monitoring

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Operational monitoring near waste facilities in the 200 Areas is conducted by Westinghouse Hanford Company to evaluate the performance of waste disposal and storage sites and assess the impact of specific sites on ground water. Well locations, monitoring frequencies, and constituents for which samples are analyzed are selected to meet this objective. The sampling network design, analytical plans, and results are presented each year in an annual report (e.g., Serkowski and Jordan 1989). Changes in the monitoring network from year to year are described in that report.

#### 2.1.3 Ground-Water Surveillance

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Ground-Water Surveillance is conducted to meet the objectives identified in the introduction. The selection of wells, constituents for which samples are collected and analyzed, and sampling frequency are based on knowledge of waste disposal practices and inventories (Stenner et al. 1988), regulatory

requirements, contaminant mobility, and the site hydrogeology (Jaquish and Bryce 1990). Environmental surveillance samples are analyzed for both radiological and chemical constituents.

#### 2.1.3.1 Radiological Surveillance

Radiological surveillance is performed to monitor the extent of radioactive contamination, identify new instances of radionuclide release to the ground water, and sample for selected radionuclides that may contribute to radiation dose. Wells and constituents near operational and facility-specific networks were selected to complement monitoring performed under these programs. For example, some wells in the 200 Areas monitored by Westinghouse Hanford Company to evaluate facility operation are sampled for additional constituents to meet the objectives of environmental surveillance.

Samples collected for radiological analysis are primarily analyzed for tritium, gross alpha, and gross beta. Gamma scans and beta counting are performed for radiochemical separates (i.e., strontium-90 and technetium-99). The maximum extent of radionuclide contamination in the ground water beneath the Hanford Site is defined using tritium because nearly all radioactive waste disposed of at Hanford contains tritium. Tritium exists as part of the water molecule and as such moves with the ground water unretarded by chemical and physical interaction with dissolved constituents and aquifer materials. Tritium was also concentrated in certain large-volume wastes, such as reactor coolant in the 100 Areas and process condensates in the 200 Areas.

Gross alpha and gross beta analyses, and gamma scans are used to identify potential new releases of radionuclides in a cost-effective manner at certain locations. These techniques are used to survey wells throughout the Hanford Site for a wide variety of alpha-, beta-, and gamma-emitting radionuclides. If results of these survey techniques warrant, samples are collected and analyzed for individual radionuclides. Subsequent analyses are chosen on the basis of radionuclide inventories, radionuclide mobilities, and concern of the potential dose to humans.

Gross alpha concentrations above background may indicate the sample contains uranium or plutonium. Uranium is an alpha-emitting radionuclide that is

mobile in the Hanford ground water. At Hanford, uranium is commonly the radionuclide responsible for elevated gross alpha concentrations. Uranium is also a potential concern in terms of its dose to humans. Plutonium is another alpha emitter that could contribute to gross alpha activity. Past monitoring for plutonium suggests that it is immobile in the ground water and hence is monitored in only a few wells near facilities suspected of receiving plutonium. These wells are all within the 200 Areas.

Elevated gross beta concentrations are more difficult to associate with a single radionuclide because of the potentially large number of beta-emitting radionuclides discharged in Hanford liquid wastes. Strontium-90 has been a common contributor to elevated gross beta concentrations in ground water. Strontium-90 is monitored in ground-water samples collected throughout the Hanford Site, with emphasis on the operating areas. Other beta emitters of potential dose concern that are relatively mobile in the ground water are technetium-99 and iodine-129. Radioactive decay products of uranium also contribute to gross beta concentrations in areas with elevated uranium.

#### 2.1.3.2 Chemical Surveillance

A subset of both the PNL environmental surveillance and the Westinghouse Hanford Company operational radiological monitoring well networks is used for chemical sampling by PNL. Chemical sampling wells were selected primarily for their proximity to known active and inactive disposal facilities in the 100, 200, 300, and 600 Areas, and on the basis of the compiled waste inventories (Stenner et al. 1988).

Nitrate is monitored in most of the wells sampled. Nitrate, which is mobile in ground water, was present in many of the waste streams disposed to the ground and, like tritium, can be used to help define the extent of contamination in Hanford aquifers. Extensive historical records also exist for nitrate. Other chemicals and radionuclides related to Hanford operations that are potential ground-water contaminants are listed in Table 2.2. Ground-water samples collected from wells in areas where these constituents have been discharged are analyzed for the appropriate contaminant(s).

**TABLE 2.2. Major Chemical and Radiological Ground-Water Contaminants and Their Link to Site Operations**

Facilities Type	Area	Constituents
Reactor Operations	100	tritium, cobalt-60, strontium-90, Cr <sup>6+</sup> , SO <sub>4</sub> <sup>2-</sup>
Irradiated Fuel Processing	200	tritium, cesium-137, strontium-90, iodine-129, technetium-99, NO <sub>3</sub> <sup>-</sup> , Cr <sup>6+</sup> , CN <sup>-</sup> , F <sup>-</sup> , uranium, plutonium
Plutonium Purification	200	CCl <sub>4</sub> , CHCl <sub>3</sub> , plutonium
Uranium Recovery	200	uranium, technetium-99, NO <sub>3</sub> <sup>-</sup>
Fuel Fabrication	300	uranium, technetium-99, Cr <sup>6+</sup> , NO <sub>3</sub> <sup>-</sup> , TCE

#### 2.1.4 Sample Collection for 1989

During 1989, ground-water samples were collected from 567 wells in conjunction with the three programs described above. Wells were monitored with frequencies ranging from quarterly to annually. The majority of the wells were monitored on a semiannual basis. Table 2.3 summarizes the number of wells sampled, the number of samples collected, and the number of results obtained during 1989.

The wells included in the ground-water environmental surveillance sampling network for 1989 are shown in Figure 2.1. Detailed maps of operational and facility-specific monitoring well networks for the 100-B, 100-D, 100-F, 100-H, 100-K, 100-N, 200-East, 200-West, 300, and 1100 Areas are included in Appendix A.

During 1989, the Washington State Department of Ecology, U.S. Environmental Protection Agency (EPA), and DOE began discussions to identify appropriate methods for disposing of ground water purged from wells before collecting samples. Before these discussions, purge water from all but the most contaminated wells was allowed to flow onto the ground near the well being sampled. Sample collection was temporarily halted at many wells on the Hanford Site until purge water containment vessels could be placed at wells suspected of requiring containment. As a result of this suspension of sample

**TABLE 2.3.** Wells Sampled, Samples Collected, and Analytical Results for Ground-Water Monitoring Programs

<u>Area</u>	<u>Number of Wells Sampled</u>	<u>Number of Samples Collected</u>	<u>Number of Analytical Results</u>
100	91	340	44,036
200	179	551	47,158
300	32	132	15,765
400	4	4	4
600	261	647	18,114
Total	567(a)	1,674	125,077

(a) Total of samples collected for surveillance, for RCRA compliance, and for compliance with Westinghouse Hanford Company and DOE monitoring guidelines.

collection, many wells discussed in previous reports were not sampled during 1989. Wells not sampled included those providing access to ground water containing fluoride above the MCL, maximum concentrations of cyanide and tritium, significant areas of carbon tetrachloride and nitrate, and maximum concentrations of chromium in the 200-West Area.

#### 2.1.5 Monitoring Well Design

Most monitoring wells at the Hanford Site are 10, 15 or 20 cm (4, 6 or 8 in.) in diameter and are constructed of steel casing. Several small-diameter [5-cm (2-in.)] piezometers are sampled for radionuclides only. Wells drilled before 1985 were generally constructed with carbon steel casing. In most cases, the casing was perforated to allow communication with the aquifer. Wells recently constructed for RCRA monitoring projects have been constructed with stainless steel casing and stainless steel screens. Monitoring wells for the unconfined aquifer are completed with well screens or perforated casing in the upper 3 to 6 m (10 to 20 ft) of the aquifer. Completion at the water table allows samples to be collected near the top of the aquifer where maximum concentrations for some radionuclides were measured at a few locations on the Hanford Site (Eddy et al. 1978). Confined aquifer monitoring wells have

screens, perforated casing, or an open hole within the monitored horizon. Only wells containing submersible or HydroStar<sup>(a)</sup> pumps were chosen for chemical sampling to allow sufficient purging of wells before sampling.

#### 2.1.6 Sampling Methods

Ground-water samples were collected from wells using documented sampling procedures (PNL 1989) that follow formal, established guidelines (EPA 1986). Wells fitted with submersible pumps were sampled after pumping for a sufficient time to allow temperature, pH, and specific conductivity to stabilize. The purging process ensured that any stagnant water in the well was removed, allowing collection of a sample that was representative of the ground water near the well. A stainless steel sampling tee was then connected to the pump discharge line. One side of the tee consisted of a 0.476-cm (3/16-in.) critical orifice discharging to a 0.635-cm (1/4-in.) Teflon<sup>(b)</sup> sampling line. Excess water was discharged through a ball valve on the other branch of the tee. This arrangement allowed the pump discharge to be throttled back sufficiently to provide a continuous water column, while providing some pressure relief to avoid damage to the header pipe. Samples for volatile organic analyses were taken with zero head space and sealed immediately with a septum-sealed cap. A disposable, 0.45-micron pore-sized filter pack was connected to the Teflon sampling line for sampling filtered trace metals. The filter was purged with 500 mL (0.13 gal) of well water, then a sample was collected in the appropriate sample bottle. Trace metal samples and some radiochemical samples were preserved by acidification at the time of collection. All samples were placed on ice in ice chests immediately after sampling and were transferred the same day or early the next morning to the analytical subcontractor, United States Testing Company, Inc. (UST), Richland, Washington, for immediate analysis of species with short holding times (e.g., for nitrate and volatile organic analyses). Samples were stored at 4°C (39°F) from the time of sampling until they were analyzed. All samples were tracked

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(a) HydroStar is a registered trademark of Instrumentation Northwest, Inc., Redmond, Washington.

(b) Teflon is the registered trademark for a fluorocarbon resin product of E. I. du Pont de Nemours and Company, Wilmington, Delaware.

using chain-of-custody procedures from sampling through analysis and disposal. Procedures for analyzing samples have been described elsewhere (Jaquish and Bryce 1990, Appendix B).

## 2.2 RESULTS

An assessment of contaminant distribution in ground water on the Hanford Site is presented in this section. Data collected by operational, facility-specific, and environmental surveillance programs were evaluated as an integrated data set for this assessment. Results of past studies can be found in environmental monitoring reports by PNL and the operating contractor (Westinghouse Hanford Company). The most recent reports are Jaquish and Bryce (1990); Evans et al. (1989b); and Serkowski and Jordan (1989). Jaquish and Bryce (1990) discuss the impacts of Hanford Operations on all environmental media for 1989. Evans et al. (1989b) discussed in detail the following contaminants in Hanford Site ground water: 1) carbon tetrachloride in the 200-West Area; 2) cyanide in and north of the 200-East and 200-West Areas; 3) hexavalent chromium in the 100 Areas and extended environs, 200-West Area, and 200-East Area; 4) chlorinated hydrocarbons near the Hanford Solid Waste Landfill, 300 Area, and 100-F Area; 5) nitrate across the Site; and 6) tritium across the Site. Serkowski and Jordan (1989) discuss the distribution of selected radiological parameters in ground water in and around the 200 Areas of the Hanford Site.

This report is the most recent in a series of reports (e.g., Bryce 1988; Evans et al. 1988a,b, and 1989a,b) and will update information presented in previous reports based on data that became available during 1989.

This section of the report will discuss background conditions on the Site and will present chemical and radiological impacts of Site operations on ground water. An extensive set of computer-generated plume maps were developed for this report. Data used to compile these maps were taken from the 24-month period spanning 1988 and 1989. The extended interval was used in order to provide an adequate data base for satisfactory contouring. Tritium and nitrate plume maps were prepared by manual contouring of annual data from 1989 for consistency with previous reports (e.g., Evans et al. 1989a,b).

Appendix C contains tables listing all chemical results and radiochemical results for samples collected during 1989 for species relevant to potential contamination issues. The listing format is a departure from previous reports in which all species detected above the detection limit were reported on a well by well basis. The data presentation format has been changed in an attempt to make the data tables more useful. Data from 1988 used in this report are listed in Evans et al. 1989a and 1989b.

Results are discussed relative to the Maximum Concentration Limit (MCL) described by EPA (EPA 1976), and/or the Derived Concentration Guide (DCG) set by DOE (1981a), appropriate for each constituent (Appendix B), and to background concentrations. The MCLs for radionuclides are more restrictive than the DCGs because the MCLs are based on an annual dose to the affected organ of 4 mrem/yr, while the DCGs are based on an effective whole body dose of 100 mrem/yr. The DCGs are only relevant to radionuclides. Derived Concentration Guides used through the end of 1989 are proposed guidelines derived from DOE Order 5480.1A. Those DCGs will be superseded in 1990 by the final DCG specified in DOE Order 5400.5.

### 2.2.1 Background Concentrations

Background concentrations of contaminants at the Hanford Site have been estimated from analyses of ground-water samples collected in areas not affected by operations. The basis for estimation of background levels was discussed in detail by Evans et al. (1989a). Estimates of background concentrations for selected constituents are reproduced here in Table 2.4 to be used as comparisons for wells affected by Hanford operations.

### 2.2.2 Plume Maps

Plume maps (contour plots) included in this section are based on data for the unconfined aquifer extracted directly from the Hanford Ground Water Data Base (HGWDB). Prior to plotting the data, the extracted data files were carefully examined. Data associated with wells completed in deep unconfined aquifer or in the confined aquifers and data that appeared to be anomalous relative to other related data points were removed prior to further processing. Only minimal adjustments were required. Two contouring methods were

**TABLE 2.4.** Estimated Background Levels for Selected Constituents  
in Hanford Ground Water

<u>Constituent</u>	<u>Detection Limit<sup>(a)</sup></u>	<u>Background Concentration<sup>(a)</sup></u>
Aluminum	2 <sup>(b)</sup>	<2 <sup>(b)</sup>
Ammonia	50	<50
Arsenic	0.2 <sup>(b)</sup>	3.9 ± 2.4 <sup>(b)</sup>
Barium	6	42 ± 20
Beryllium	0.3 <sup>(b)</sup>	<0.3 <sup>(b)</sup>
Bismuth	0.02 <sup>(b)</sup>	<0.02 <sup>(b)</sup>
Boron	50 <sup>(b)</sup>	<50 <sup>(b)</sup>
Cadmium	0.2 <sup>(b)</sup>	<0.2 <sup>(b)</sup>
Calcium	50	40,400 ± 10,300
Chloride	500	10,300 ± 6,500
Chromium	2 <sup>(b)</sup>	4.0 ± 2.0 <sup>(b)</sup>
Copper	1 <sup>(b)</sup>	<1 <sup>(b)</sup>
Cyanide	10	<10
Fluoride	500	370 ± 100
Lead	0.5 <sup>(b)</sup>	<0.5 <sup>(b)</sup>
Magnesium	10	11,800 ± 3,400
Manganese	5	7 ± 5
Mercury	0.1	<0.1
Nickel	4 <sup>(b)</sup>	<4 <sup>(b)</sup>
Phosphate	1000	<1000
Potassium	100	4,950 ± 1,240
Selenium	2 <sup>(b)</sup>	<2 <sup>(b)</sup>
Silver	10	<10
Sodium	10	18,260 ± 10,150
Strontium	20	236 ± 102
Sulfate	500	34,300 ± 16,900
Uranium	0.5 <sup>(c)</sup>	1.7 ± 0.8 <sup>(c)</sup>
Vanadium <sup>**</sup>	5	17 ± 9
Zinc	5	6 ± 2
Alkalinity	--	123,000 ± 21,000
pH	--	7.64 ± 0.16
Total Organic Carbon	200	586 ± 347
Conductivity	1 <sup>(d)</sup>	380 ± 82 <sup>(d)</sup>
Gross Alpha	0.5 <sup>(c)</sup>	2.5 ± 1.4 <sup>(c)</sup>
Gross Beta	4 <sup>(c)</sup>	19 ± 12 <sup>(c)</sup>
Radium	0.2 <sup>(c)</sup>	<0.2 <sup>(c)</sup>

(a) Units in ppb unless otherwise noted.

(b) Based on Induction Coupled Plasma-Mass Spectrometry data.

(c) Units in pCi/L.

(d) Units in  $\mu\text{mho}/\text{cm}$ .

employed. To provide continuity of interpretation, site scale tritium and nitrate plume maps were prepared using the same methodology as in previous years. Data were plotted directly on translucent paper scaled to the same dimensions as a Hanford base map. Contours were drawn manually on the map by a geohydrologist using a simple linear interpolation method. Some professional judgment based on known Site hydrology was used to guide the contouring. The period covered by data used for the tritium and nitrate plume maps was January 1, 1989, to December 31, 1989, coincident with the reporting period for this document. All other plume maps were drawn using a computer-aided contouring package, SURFER (Golden Software, Golden, Colorado), using an inverse square interpolation algorithm. Contour plots were subsequently refined using graphics software and overlain on detailed base maps. The refinement process included some redrawing of lines to remove divergences at boundaries (e.g., the Columbia River) and some smoothing of irregularities in the plots. The period covered by the computer-generated plots was January 1, 1988, to December 31, 1989. A wider time window was used for those plots because the data set collected during 1989 was severely limited, particularly in areas of high contamination. As previously discussed, many key wells were not sampled or were sampled infrequently because of restrictions on disposal of purge water. The 2-year period (1988 and 1989) thus formed a more representative data base from which to plot the concentration contours.

Plume maps included in the following sections are intended as visualization tools to provide the reader with a better understanding of the approximate locations of contaminant plumes. These plume maps are not comprehensive. While attempts were made to manually eliminate all computer-generated graphical artifacts, it should be recognized that the process has inherent limitations. The most serious limitation comes from the nature of the well network itself, which is irregularly distributed and of insufficient spacial density to provide optimal contouring information. Areas with insufficient well density for accurate plume definition include: 1) the area north of the BY Cribs in the 200-East Area; 2) the area south of the BC Cribs near the 200-East Area; 3) the area between the 200-East and 200-West Areas; 4) the eastern portion of the plumes originating in the 216-U-1 and 216-U-2 Cribs in the 200-West Area; and 5) essentially all of the 100 Areas. The 100-B, 100-D,

100-K, and 100-F Areas have only a few usable monitoring wells each. The 100-H Area has a good well network close to the 183-H Solar Evaporation Basins, but little information is obtainable on the rest of that area. Similarly, the 100-N Area now has an extensive network of wells near 1301 and 1325-N LWDFs but has very limited well distribution in the area of maximum radiological contamination by strontium-90. In addition, several annually-sampled seep wells are located adjacent to the river to characterize spring discharges (Perkins 1989). Because most of the existing ground-water contamination on the Hanford Site appears to be associated with past practices, recent well drilling activities that have targeted operating facilities have contributed only minimally to mapping the extent of contaminant plumes from past practices either in the 100 Areas or other parts of the Site.

### 2.2.3 Cyanide

Cyanide was detected in samples collected from wells in and directly north of the 200-East Area. The cyanide source is believed to be wastes containing ferrocyanide disposed to the BY cribs. Samples taken in January 1989 had a maximum cyanide concentration of 574  $\mu\text{g/L}$  in well 699-50-53, down from 1690  $\mu\text{g/L}$  in 1988. Lesser amounts were present in four other wells in or near the northern side of the 200-East Area. No MCL has been established for cyanide. Wells containing cyanide also contained concentrations of several radionuclides, including cobalt-60. Although cobalt-60 is normally immobile in the subsurface, it appears to be chemically complexed and mobilized by cyanide or ferrocyanide. A contour plot of the areal distribution of cyanide north of the 200-East Area is shown in Figure 2.2.

Cyanide also has been detected in four widely spaced wells in the 200-West Area; the highest level reported in 1988 was 69  $\mu\text{g/L}$  in well 299-W14-2. No samples were taken from well 299-W14-2 in 1989 because of considerations associated with disposal of purge water. A contour plot of the spatial distribution of cyanide in the 200-West Area ground water is presented in Figure 2.3. Note that two separate areas of higher concentration are shown. The northern lobe is centered near the 216-T-26 Crib, which received a total estimated inventory of 6000 kg of ferrocyanide in 1955-1956 (Stenner et al. 1988). The source of the southern concentration maximum is uncertain.

2 2 4 Fluoride

Fluoride concentrations above the MCL occurred in a few wells in the 200-West Area near T Plant. The maximum concentration in 1988 was 12.8 mg/L in well 299-W15-4. None of the 200-West Area wells in the fluoride plume were sampled in 1989, because of considerations associated with disposal of purge water. A contour plot of the areal extent of the fluoride plume in the 200-West Area is shown in Figure 2.4. Two areas of elevated concentration are indicated, however, that may be an artifact of the well distribution. The source of fluoride is believed to be several liquid waste disposal facilities (LWDFs) associated with Z Plant. For example, the 216-Z-9 Crib received 210,000 kg of aluminum fluoride nitrate (Stenner et al. 1988) during the course of its operation from 1955 to 1962. A similar amount of aluminum fluoride nitrate was disposed to the 216-Z-18 crib during its operation from 1969 to 1973. However, the fact that the plume is some distance from those two cribs makes identification of the source somewhat questionable. All wells sampled outside the 200-West Area contained fluoride levels below the MCL. The MCL for fluoride is 2.0 mg/L.

2 2 5 Hexavalent Chromium

Chromium has been found in ground water from wells in the 100-B, 100-D, 100-H, and 100-K Areas. In addition, at least one well in the 100-F Area had detectable hexavalent chromium.

The highest measured chromium concentrations on the Hanford Site in 1989 continued to be found in well 199-D5-12 at 692  $\mu\text{g}/\text{L}$ , down more than a factor of two from measurements made in 1987. A contour plot of the chromium distribution in the 100-D Area ground water is shown in Figure 2.5. The plume is centered near the 100-D reactor. The probable sources of the chromium contamination are the 116-D-1A and 116-D-1 Trenches; which received large inventories of chromium during the 1950s and 1960s (Stenner et al. 1988).

A contour plot of the distribution of chromium in the 100-H Area ground water is shown in Figure 2.6. The center of the plume is located just south of the 183-H Solar Evaporation Basins. The evaporation basins were used for

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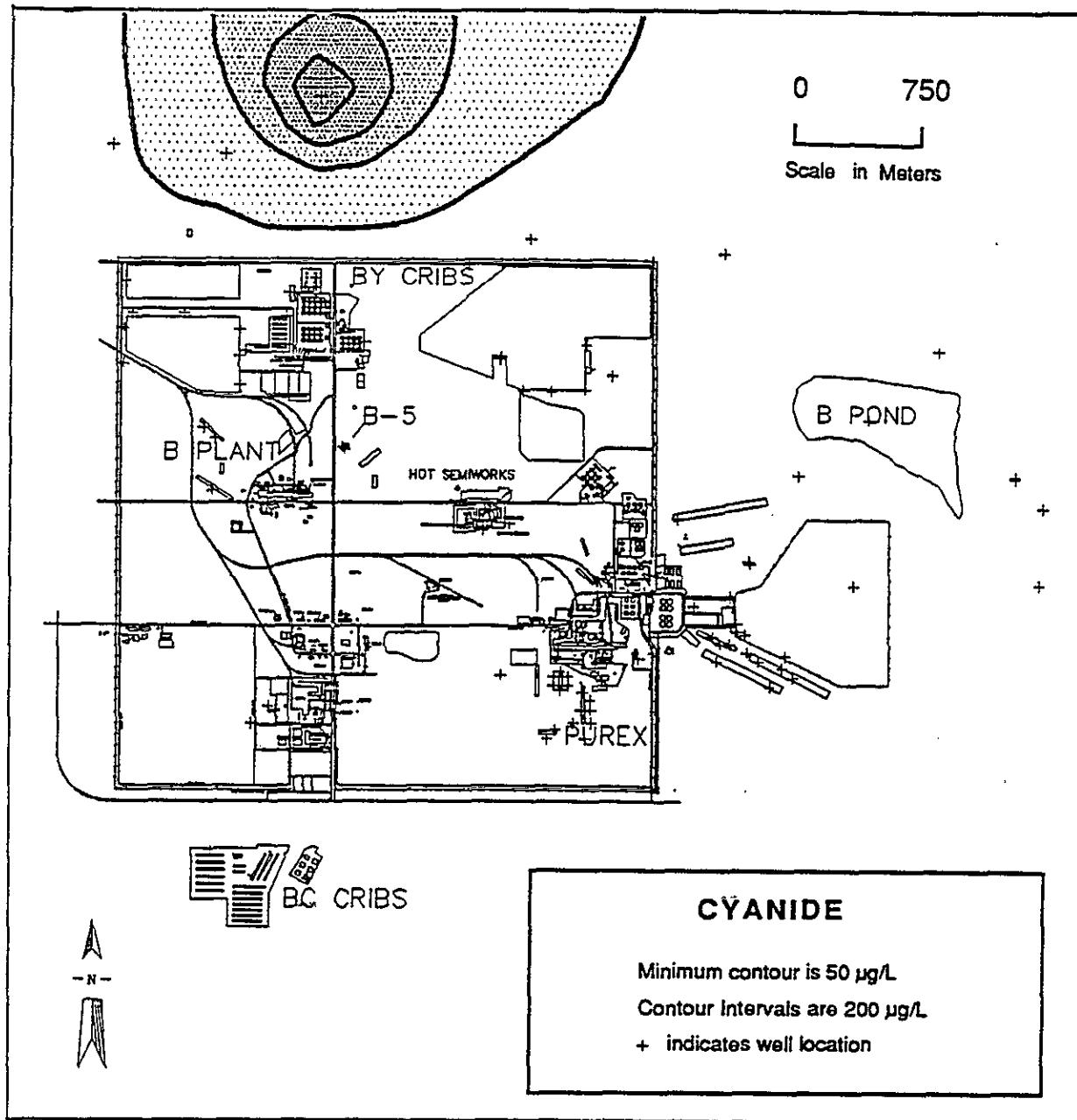


FIGURE 2.2. Cyanide Contaminant Plume North of the 200-East Area

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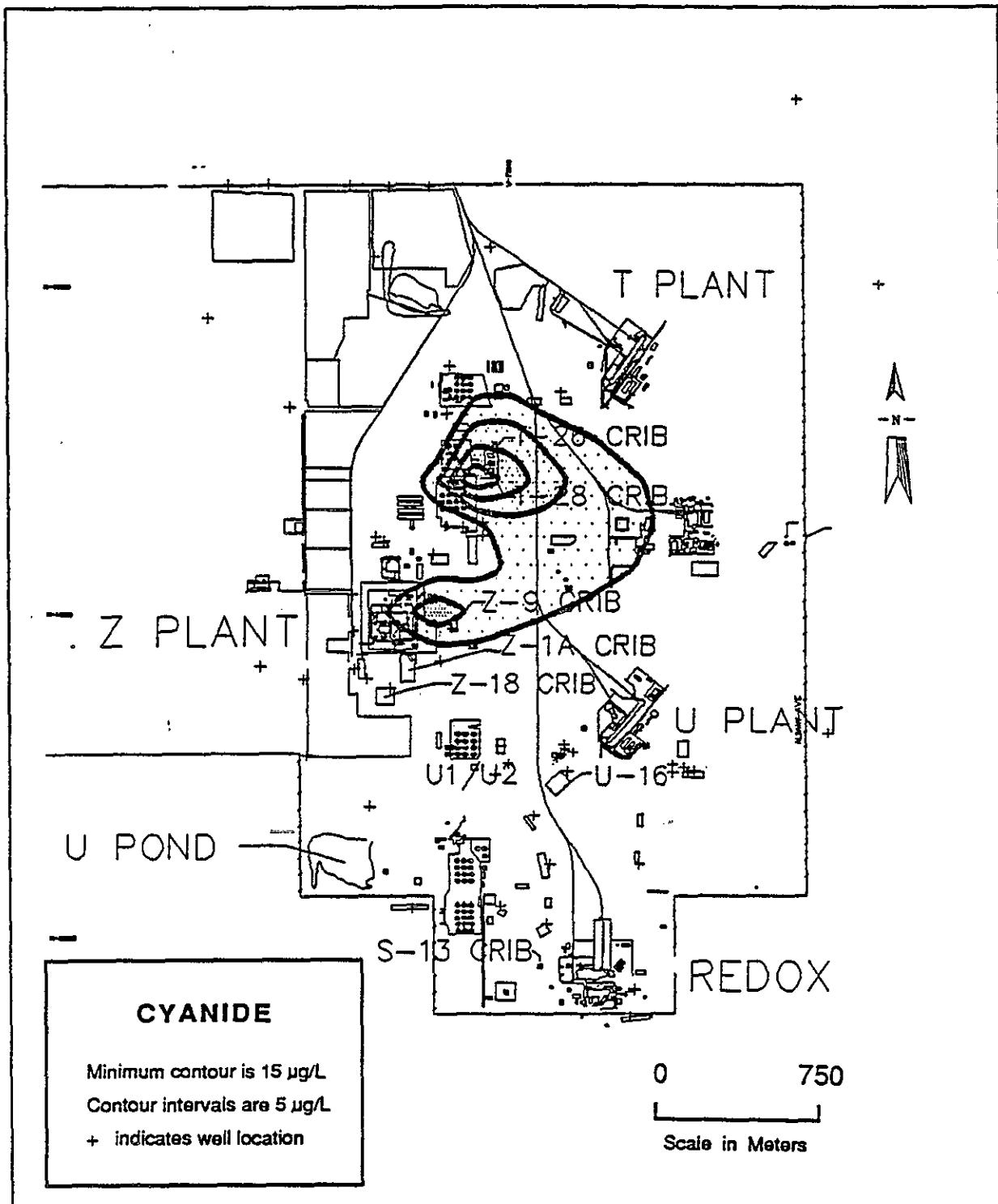


FIGURE 2.3. Cyanide Contaminant Plume in the 200-West Area

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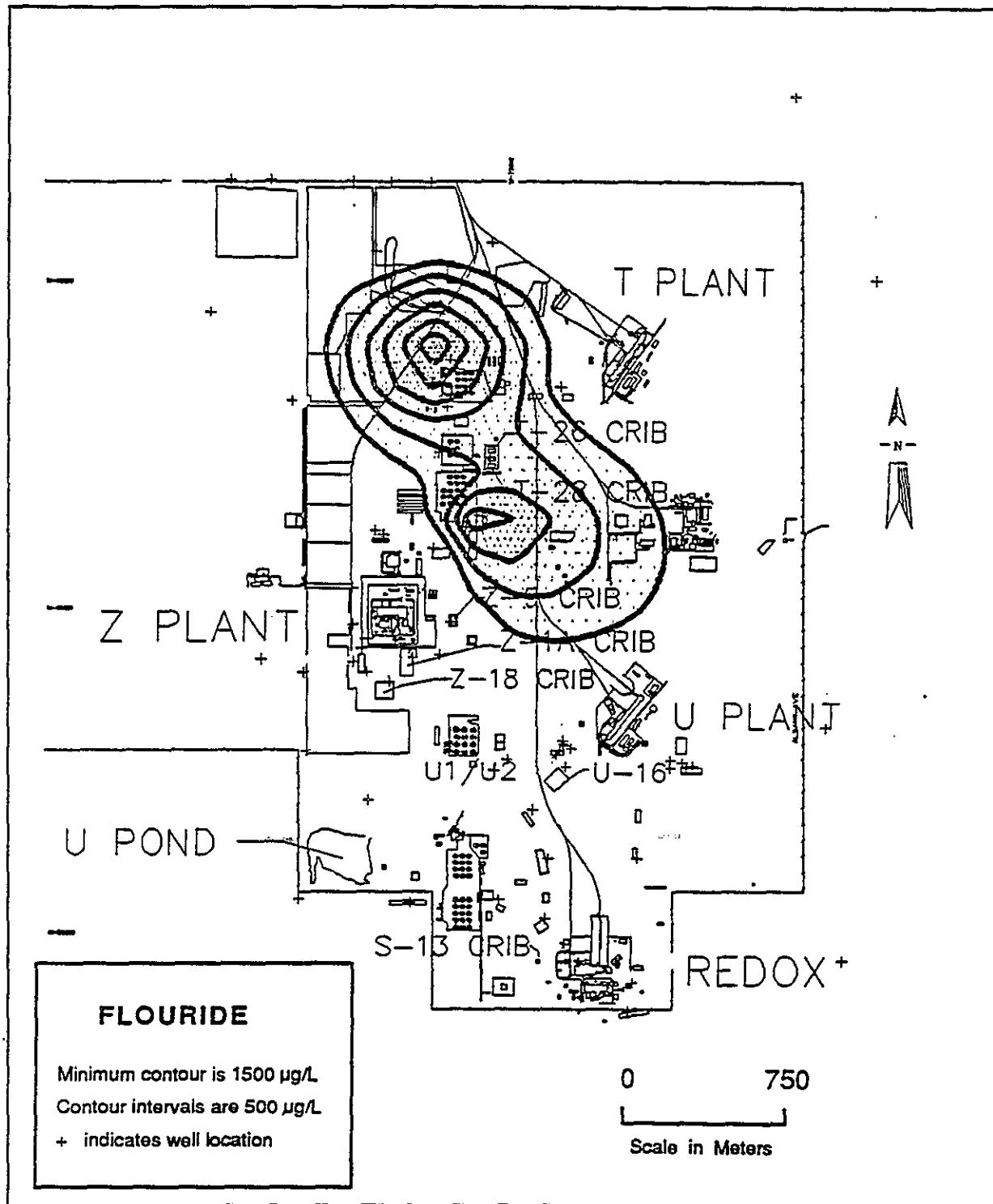


FIGURE 2.4. Fluoride Contaminant Plume in the 200-West Area

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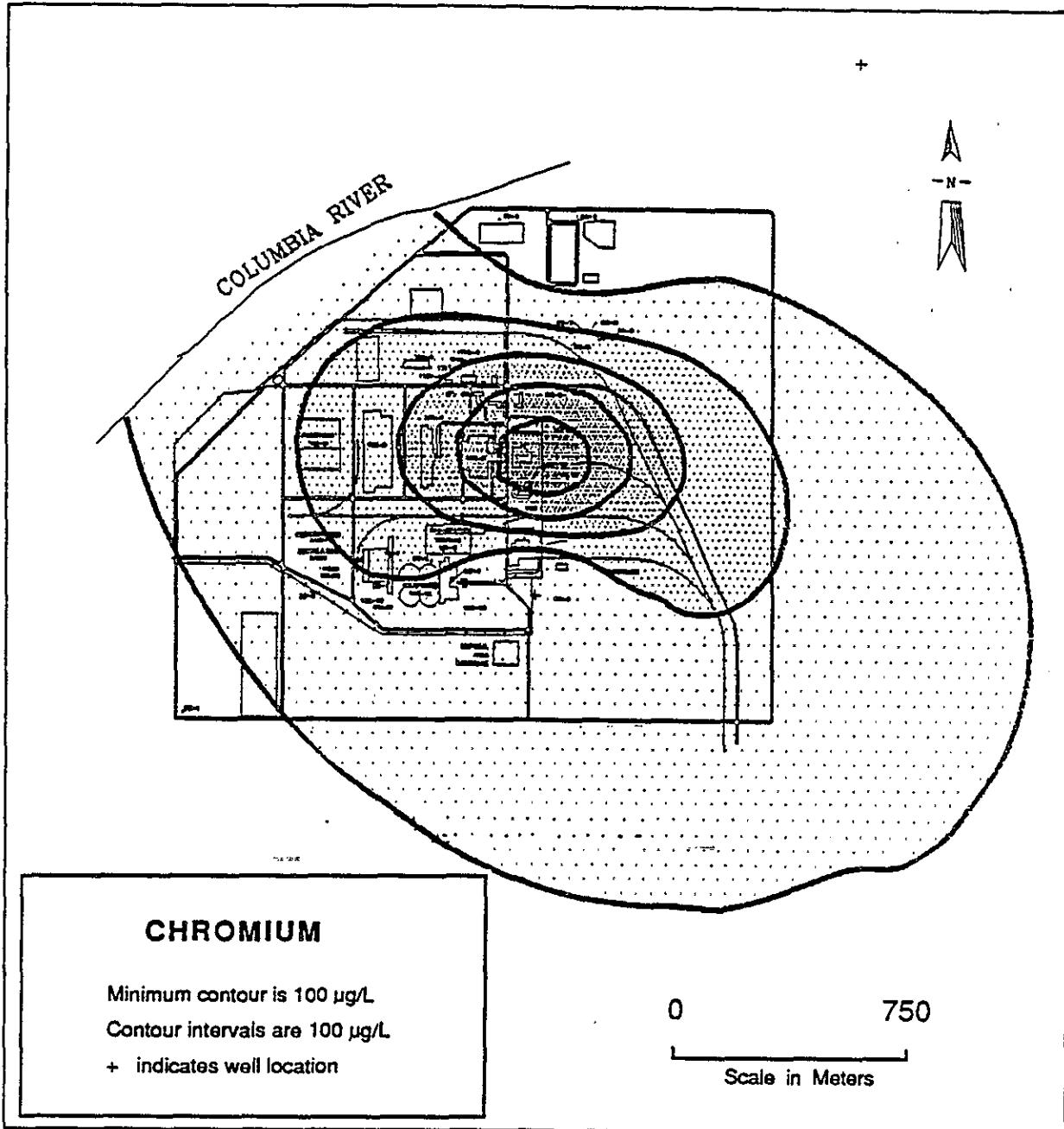


FIGURE 2.5. Chromium Contaminant Plume in the 100-D Area

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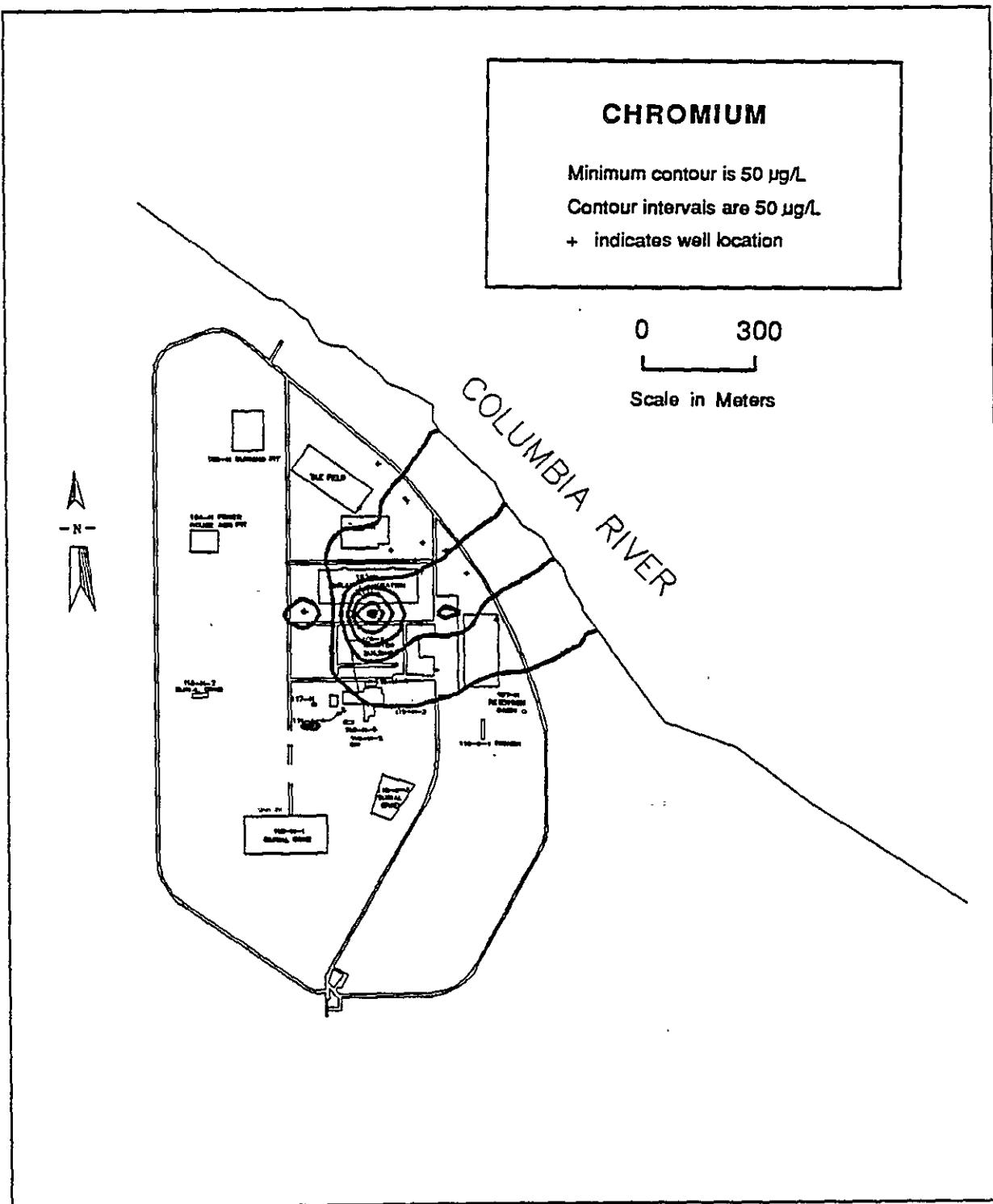


FIGURE 2.6. Chromium Contaminant Plume in the 100-H Area

volume reduction of decontamination wastes originating from the 300 Area Fuel Fabrications Facility. Leakage from at least one of the basins is believed to be the contamination source (Hall 1989).

Detectable chromium was also found in various parts of the 600 Area, particularly near the 100-D and 100-H Areas. The highest concentration was found in well 699-97-43 (approximately 1 km west of the 100-H Area) at 192  $\mu\text{g}/\text{L}$ , four times the MCL (50  $\mu\text{g}/\text{L}$ ). Two other wells in the same area had chromium levels greater than the MCL in 1989.

Chromium was previously found in ground water at several locations in the 200-West Area; however, only one of those wells (299-W6-2) was sampled in 1989. Chromium concentrations in well 299-W6-2 were similar to those observed in 1988. The maximum chromium concentration found in the 200-West Area during 1988 was 339  $\mu\text{g}/\text{L}$  in well 299-W22-20. Ground-water samples from at least 12 other 200-West Area wells sampled in 1988 had detectable chromium. A contour plot of the distribution of chromium concentrations in the 200-West Area is given in Figure 2.7. The origin of the plume at the southern end of the 200-West Area is almost certainly the 216-S-13 Crib, which was retired in July 1972 after receiving an estimated 10,000 kg of sodium dichromate over a 20-year period (Stenner et al. 1988). The origin of the chromium plume at the north end of the site is less certain. The most likely candidate is the 216-T-28 Crib, which had been used for disposal of decontamination wastes from the T-Plant in the early 1960s. Chromium has commonly been associated with decontamination waste on the site.

A few wells in the 200-East Area also showed evidence of minor chromium contamination. The highest level found was in well 299-E13-14, with a chromium concentration of 67  $\mu\text{g}/\text{L}$  in November 1988. That well was not sampled in 1989 because of considerations associated with purge water disposal.

## 2.2.6 Volatile Organic Compounds

### 2.2.6.1 Carbon Tetrachloride and Chloroform in the 200-West Area

Extensive carbon tetrachloride contamination was found in the unconfined aquifer beneath much of the 200-West Area. The contamination is believed to be from waste disposal operations associated with Z Plant (particularly the

216-Z-18 Crib) before 1973. A concentration of 8100  $\mu\text{g}/\text{L}$  was found in a well near Z Plant first monitored in October 1988 (well 299-W15-16). Carbon tetrachloride concentrations in well 299-W15-16 were similar in 1989, reaching an apparent maximum of 8250  $\mu\text{g}/\text{L}$ . Numerous other wells in the area had carbon tetrachloride levels ranging from 1000 to 5000  $\mu\text{g}/\text{L}$  in 1987 and 1988; however, because of restrictions on disposal of purge water, many of those wells were not sampled in 1989. A contour plot of the carbon tetrachloride distribution in the 200-West Area is shown in Figure 2.8. The MCL or target concentration, of carbon tetrachloride for remediation under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980 and the Superfund Amendments and Reauthorization Act (SARA) of 1986, is 5  $\mu\text{g}/\text{L}$ .

In addition to carbon tetrachloride, a chloroform plume of more limited extent was also observed in the 200-West Area near Z Plant. The location of the chloroform plume is similar to that of the carbon tetrachloride plume but displaced slightly to the east. The displacement appears to be real and not an artifact of the computer contouring routine as evidenced by a detailed examination of the ratio of concentrations of carbon tetrachloride to chloroform in selected individual wells in that area. A contour plot of the chloroform plume is shown in Figure 2.9. The origin of the chloroform is not certain. It is probably a degradation product of carbon tetrachloride either through radiolytic processes prior to disposal or through natural transformation processes (i.e., microbial degradation) in the subsurface. The highest chloroform concentration measured in the last 24 months was 1650  $\mu\text{g}/\text{L}$  (well 299-W15-8). The MCL for chloroform is 200  $\mu\text{g}/\text{L}$  (total trihalomethanes).

#### 2.2.6.2 Trichloroethylene Contamination

Trichloroethylene (TCE) contamination in excess of the 5- $\mu\text{g}/\text{L}$  MCL was found at several sites in 1989. Trichloroethylene was found in some 600 Area wells on the west side of the 100-F Area. The highest level reported in 1989 was 32  $\mu\text{g}/\text{L}$  in well 699-77-36. Trichloroethylene concentrations in that well appear to be relatively constant with time. The source of the TCE at that location is not known.

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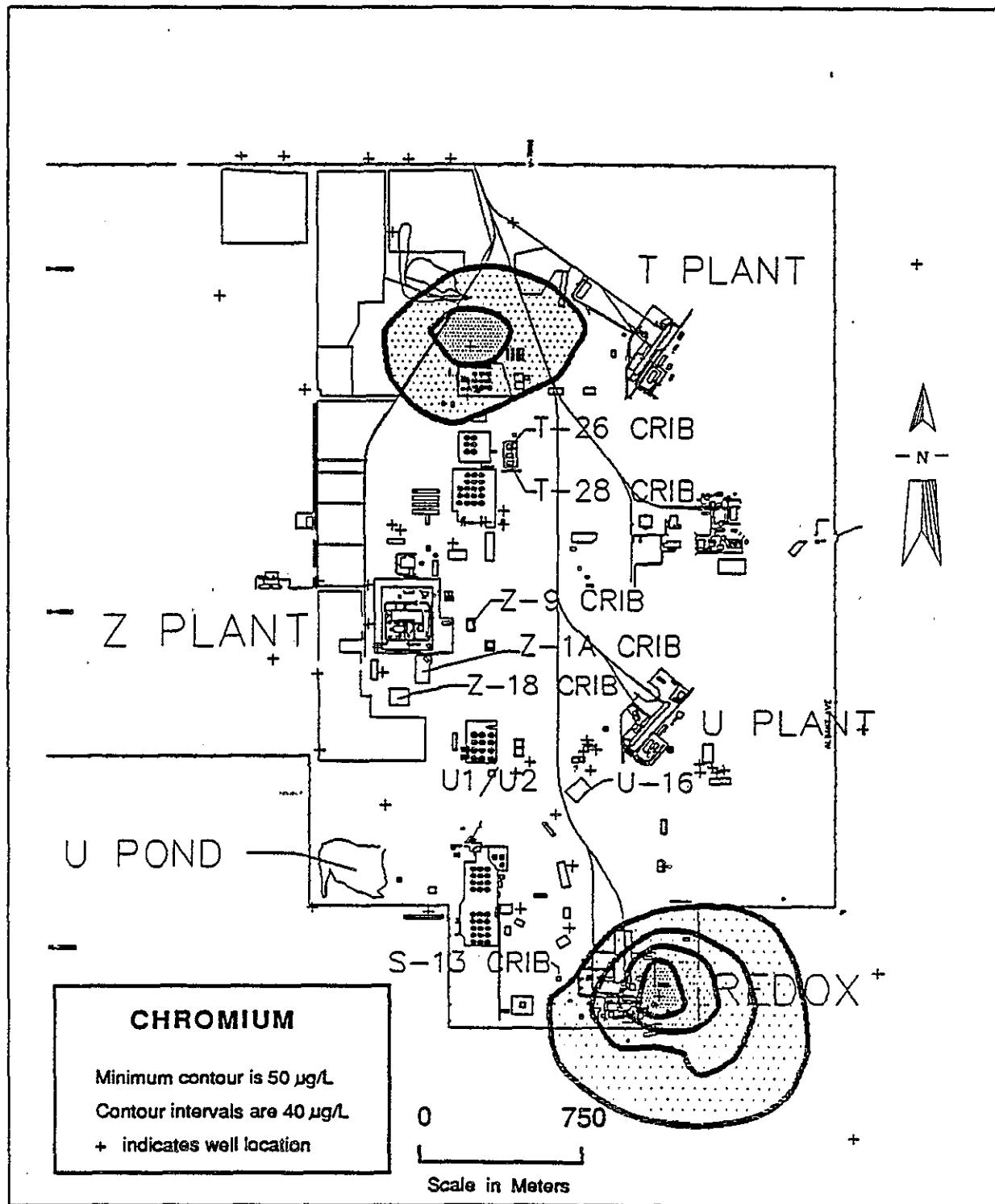
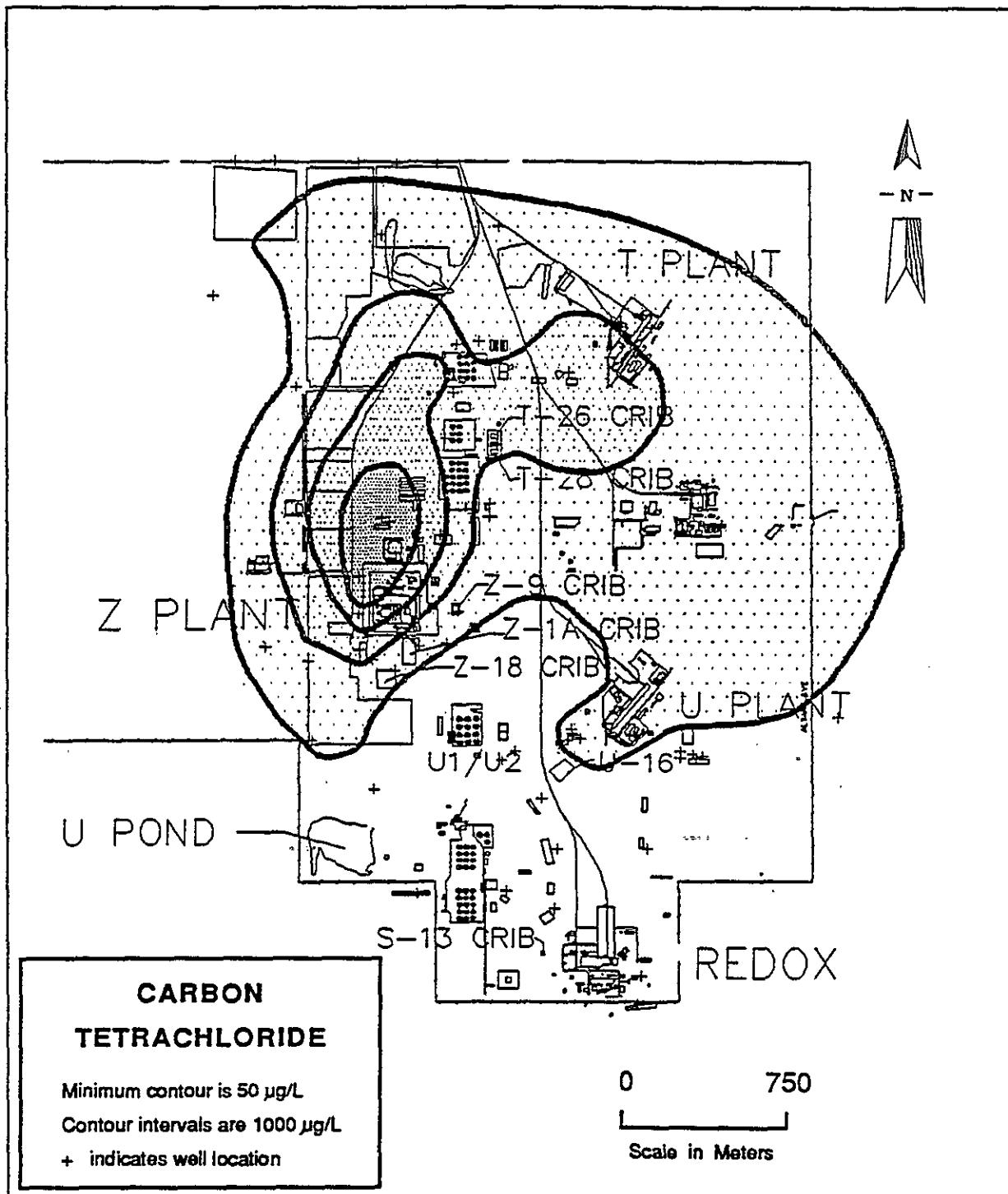


FIGURE 2.7. Chromium Contaminant Plume in the 200-West Area

9 2 1 2 6 3 9 0 0 3 6



**FIGURE 2.8. Carbon Tetrachloride Contaminant Plume in the 200-West Area**

9 2 1 2 6 3 9 0 0 3 7

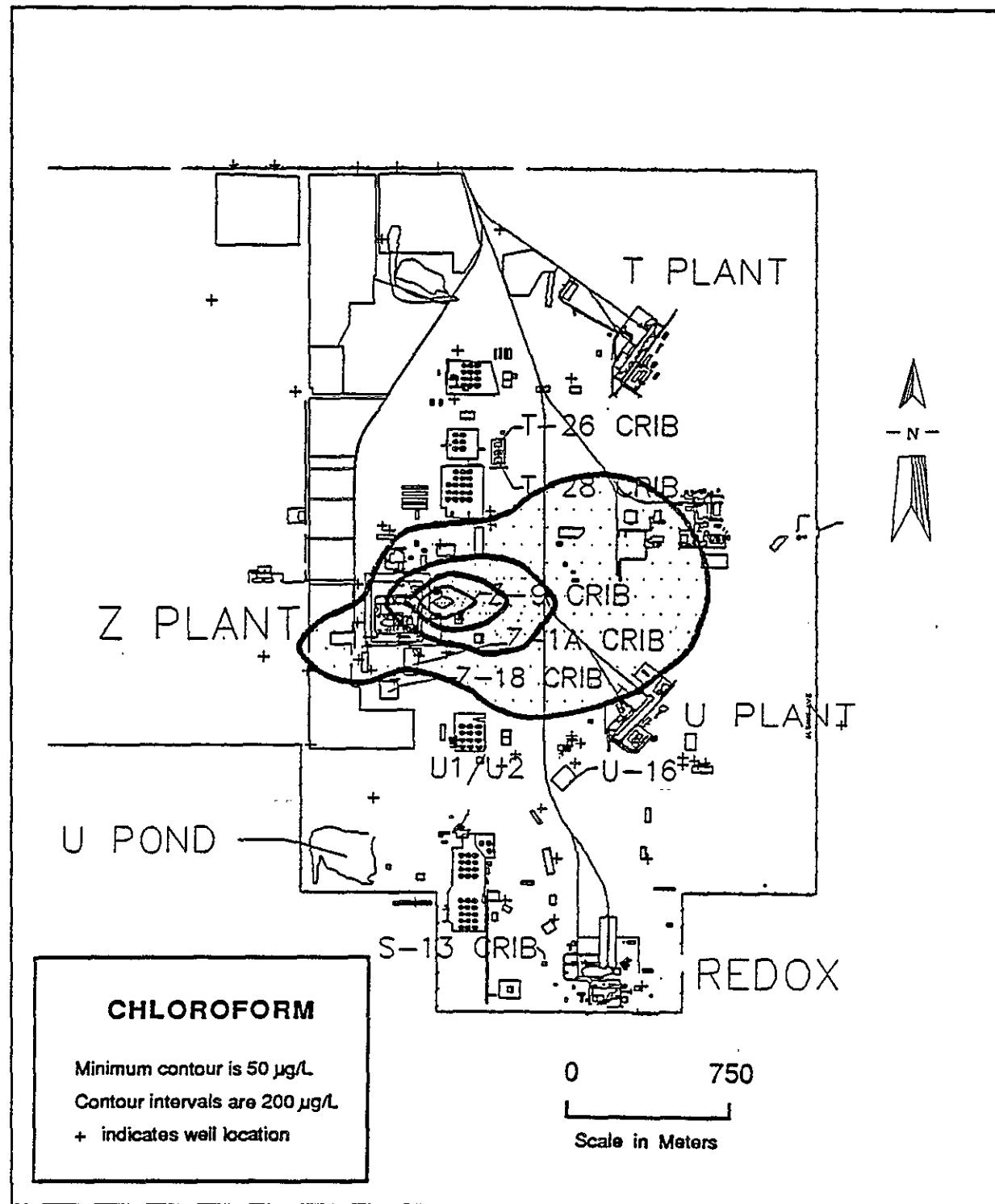


FIGURE 2.9. Chloroform Contaminant Plume in the 200-West Area

Several wells at the Solid Waste Landfill (SWL) contained trichloroethylene close to but slightly below the MCL. Solid Waste Landfill wells had shown trichloroethylene concentrations above the MCL in previous years. Trichloroethylene and several chlorinated hydrocarbon constituents are believed to be associated with waste water from the vehicle maintenance area containing small amounts of solvents discharged to three trenches on the west side of the SWL between January 1985 and January 1987. A soil gas survey of the landfill performed by PNL in 1989 (Evans et al. 1989a) confirmed the presence of TCE and other chlorinated hydrocarbons in the unsaturated zone at the landfill and documented its distribution in the soil. Other chlorinated hydrocarbons detected in the ground water and soil gas include 1,1,1 trichloroethane and perchloroethylene.

Trichloroethylene and some of its partial degradation products [i.e., cis-dichloroethylene (1,2-DCE)] were found in wells monitoring the lower portion of the unconfined aquifer in the 300 Area near the North Process Pond. Maximum concentrations were 21 µg/L trichloroethylene and 79 µg/L DCE in well 399-1-16B. Similar levels were found in nearby well 399-1-16C, which monitors the upper portion of the confined aquifer. Trichloroethylene was not found in well 399-1-16A, which monitors the upper portion of the unconfined aquifer. Stenner et al. 1988, show large inventories of TCE disposed to both the North and South Process Ponds over the course of the project. That is most likely the source of the contamination. The vertical distribution of the TCE and DCE is consistent with its high density, which would tend to cause it to sink to the bottom of the aquifer.

Trichloroethylene contamination had been detected in 1988 at levels exceeding the MCL in two locations inside the 200-West Area. A contour plot of the TCE distribution in the 200-West Area is shown in Figure 2.10. Two regions of minor TCE contamination are indicated, one near the Reduction Oxidation (REDOX) plant and the other west of T Plant near the T Tank Farm. Neither areas are known sources of TCE discharge. Neither group of wells was sampled during 1989 because of purge water disposal considerations.

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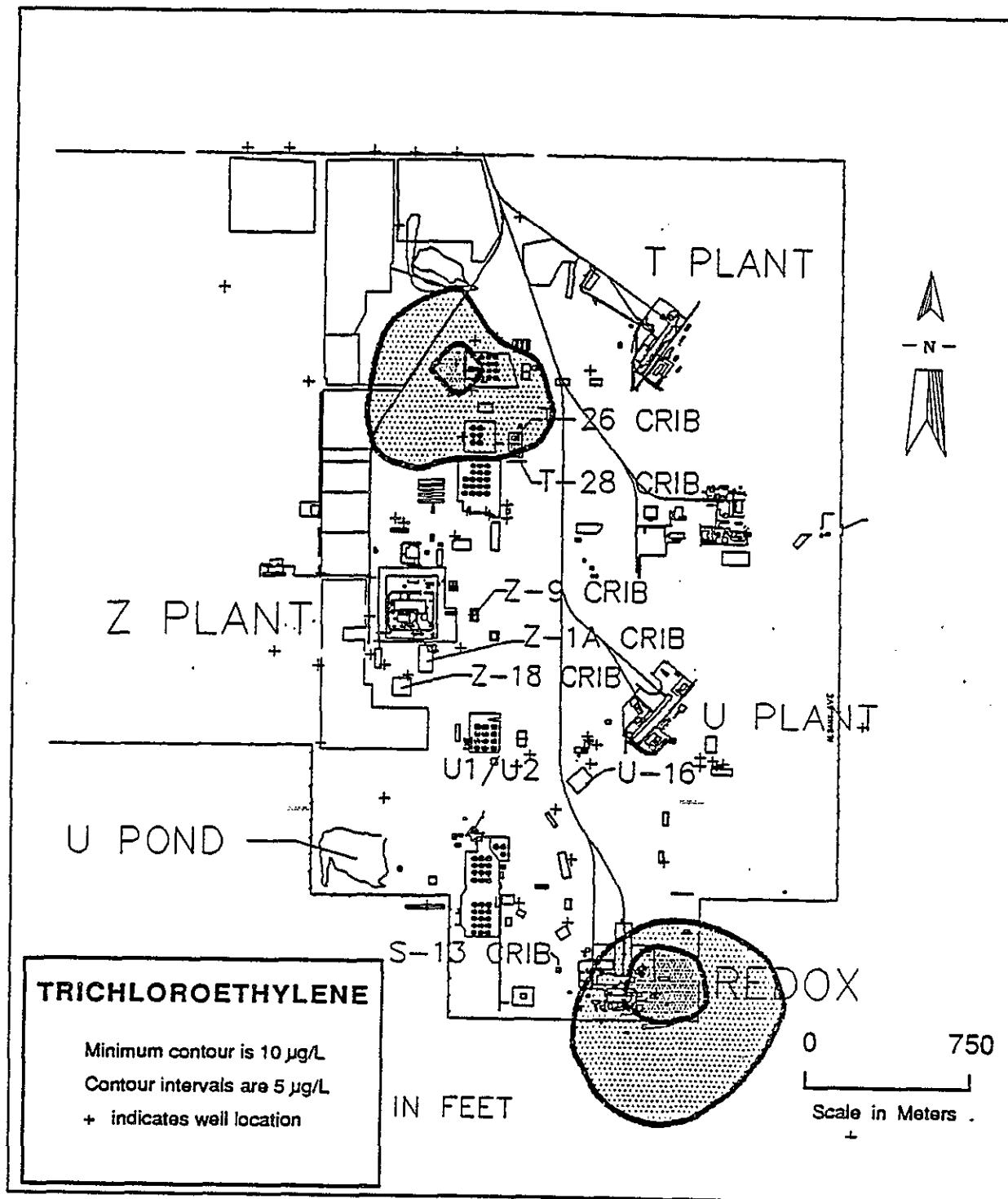


FIGURE 2.10. Trichloroethylene Contaminant Plume in the 200-West Area

## 2.2.7 Nitrate

Although nitrate is associated primarily with process condensate liquid wastes, other liquids discharged to ground also contain nitrate. Nitrate contamination in the unconfined aquifer reflects the extensive use of nitric acid in decontamination and chemical reprocessing operations. Nitrate, like tritium can be used to define the extent of contamination because nitrate is present in many waste streams at the site and is mobile in ground water. The distribution of nitrate on the Hanford Site is shown in Figure 2.11.

Most ground-water samples collected in 1989 were analyzed for nitrate. Nitrate was measured at concentrations greater than the MCL (45 mg/L as nitrate ion) in wells in all operational areas, except the 400 Area.

The highest nitrate concentrations in the 200-East Area continued to be found near LWDFs that received effluent from Plutonium Uranium Extraction (PUREX) Plant operations. Figure 2.12 shows the distribution of nitrate concentrations in the 200-East Area ground water. Nitrate concentrations in wells near the 216-A-10 and 216-A-36B cribs continued to decrease during 1989 but remained above the MCL even though these facilities were removed from service in 1987. Figure 2.12 also shows the presence of a large nitrate plume north of the 200-East Area. That plume is clearly associated with the BY Cribs waste disposal operation, which was evidenced by several other constituents in the same plume including cyanide, tritium, cobalt-60, and technetium-99.

The configuration of the nitrate plume emanating from the 200-East Area shows the influence of two periods of PUREX operations and recent changes in the operation of B Pond. The location of B Pond is shown in Figure 1.1. Increases in the volume of process cooling water discharged to B Pond may have resulted in the expanding area of lower nitrate concentrations in ground water to the east and south of that facility (see Figure 2.11).

Nitrate concentrations above the MCL were widespread in ground water beneath the 200-West Area. Highest concentrations were centered in three locations: 1) wells near U Plant, 2) wells in the northwestern part of the 200-West Area, and 3) wells near the 216-S-25 Crib. The highest nitrate

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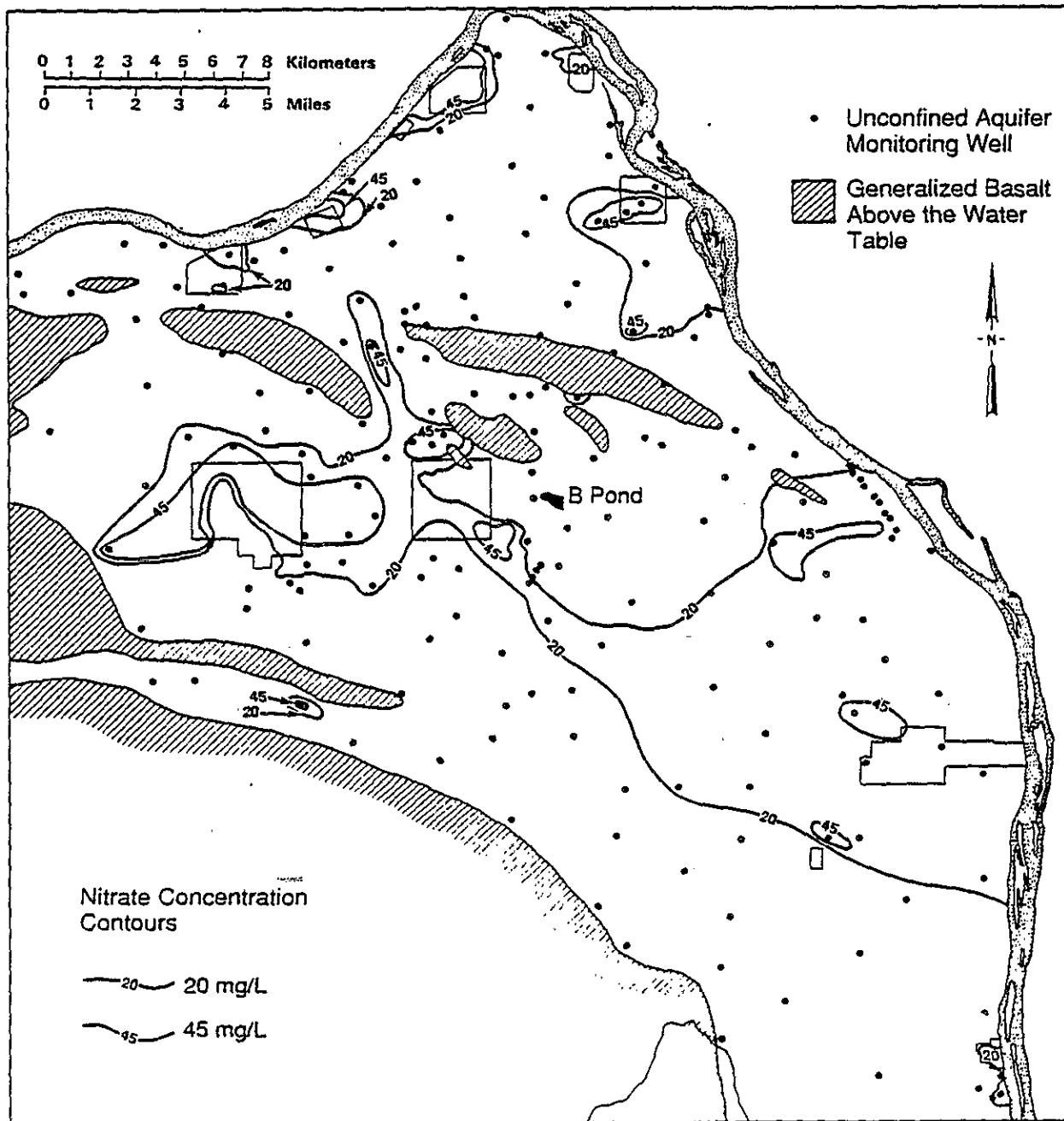


FIGURE 2.11. Distribution of Nitrate on the Hanford Site

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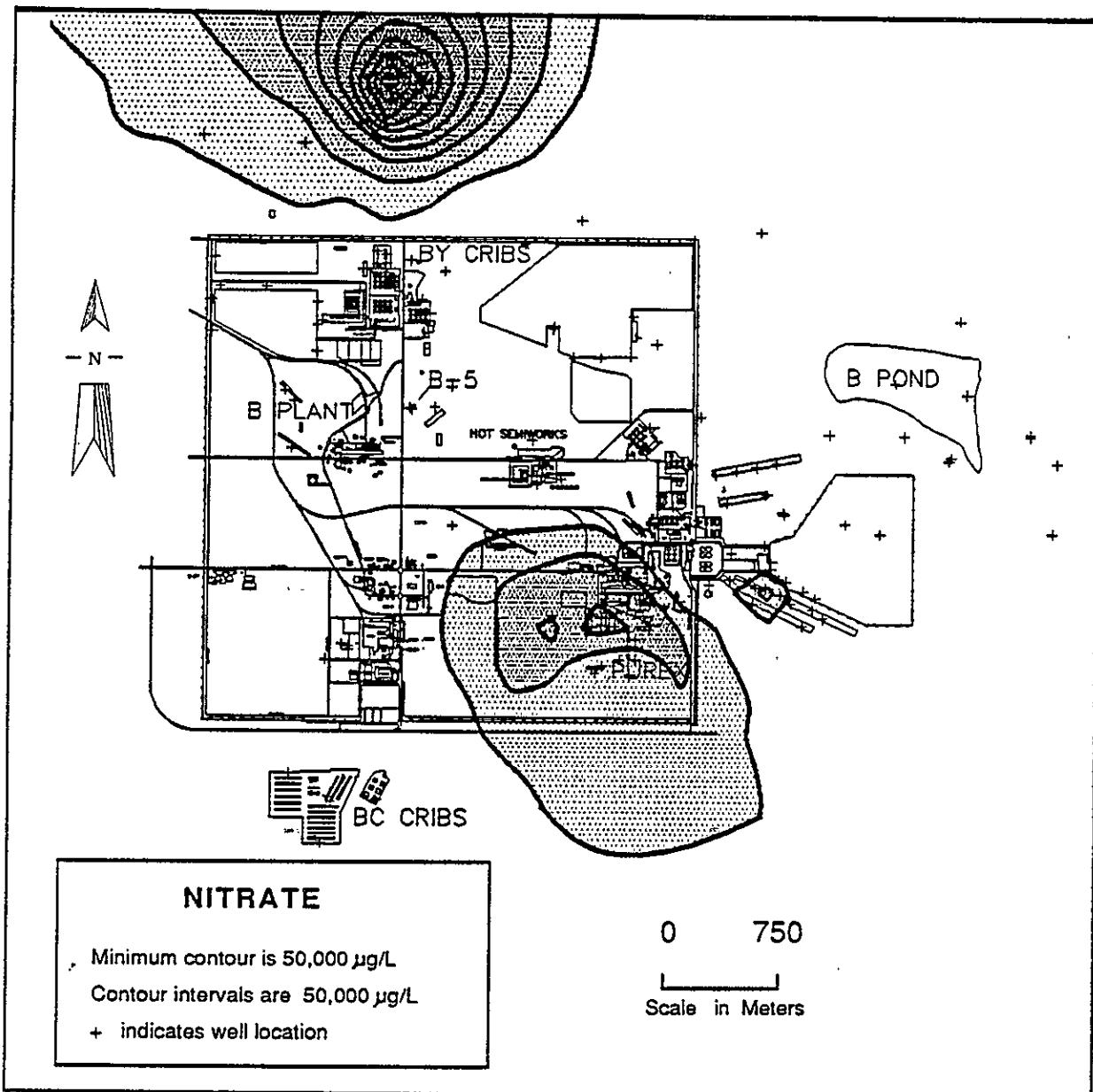


FIGURE 2.12. Nitrate Contaminant Plume in the 200-East Area

concentrations across the Site continued to be found in wells east of U Plant near the 216-U-17 crib. The presence of nitrate in wells near this crib was observed before February 1988 when the crib went into operation. The source of nitrate is believed to be wastes disposed in the 216-U-1 and 216-U-2 cribs. These cribs received over 1 million kg of nitrate during their operation from 1951 to 1967 (Stenner et al. 1988). A maximum nitrate concentration of 1300 mg/L was measured in newly installed well 299-W19-26, and similar concentrations were seen in other nearby wells. Nitrate concentrations in wells located near the 216-U-1 and 216-U-2 cribs west of U Plant continued to decrease in 1988, with concentrations in several of the wells dropping below the MCL. Several wells in the northwestern part of the 200-West Area continued to show nitrate at concentrations greater than the MCL. These wells are located near several inactive LWDFs that received waste from early T Plant operations. Maximum concentrations in these wells in 1988 ranged up to 699 mg/L in well 299-W15-4. The pattern in that area was similar in 1989; however, less information was available because of the purge water disposal considerations discussed earlier, which limited the sampling effort in 1989 in the most contaminated areas. Nitrate concentrations in those wells stabilized during 1989. A contour plot of the nitrate distribution in the 200-West Area ground water is shown in Figure 2.13.

#### 2.2.8 Tritium

12 Tritium is present in many waste streams discharged to the soil column at 2 the Hanford Site and is the most mobile radionuclide on Site. As a result, 9 tritium provides an indication of the extent of contamination in the ground water from Site operations and is the radionuclide most frequently monitored at the Hanford Site. Figure 2.14 shows the distribution of tritium in the unconfined aquifer during 1989 resulting from over 45 years of Hanford operations. Contours of tritium concentrations were based on the analysis of ground-water samples collected from monitoring wells. An average value from up to eight tritium measurements was used for each well.

1 Tritium concentrations greater than the 20,000-pCi/L MCL were detected in 2 portions of the 100-B, 100-D, 100-K, 100-N, 200-East, 200-West, 400, and 9 600 Areas. Tritium plumes are not shown in the 100-B and 100-K areas in

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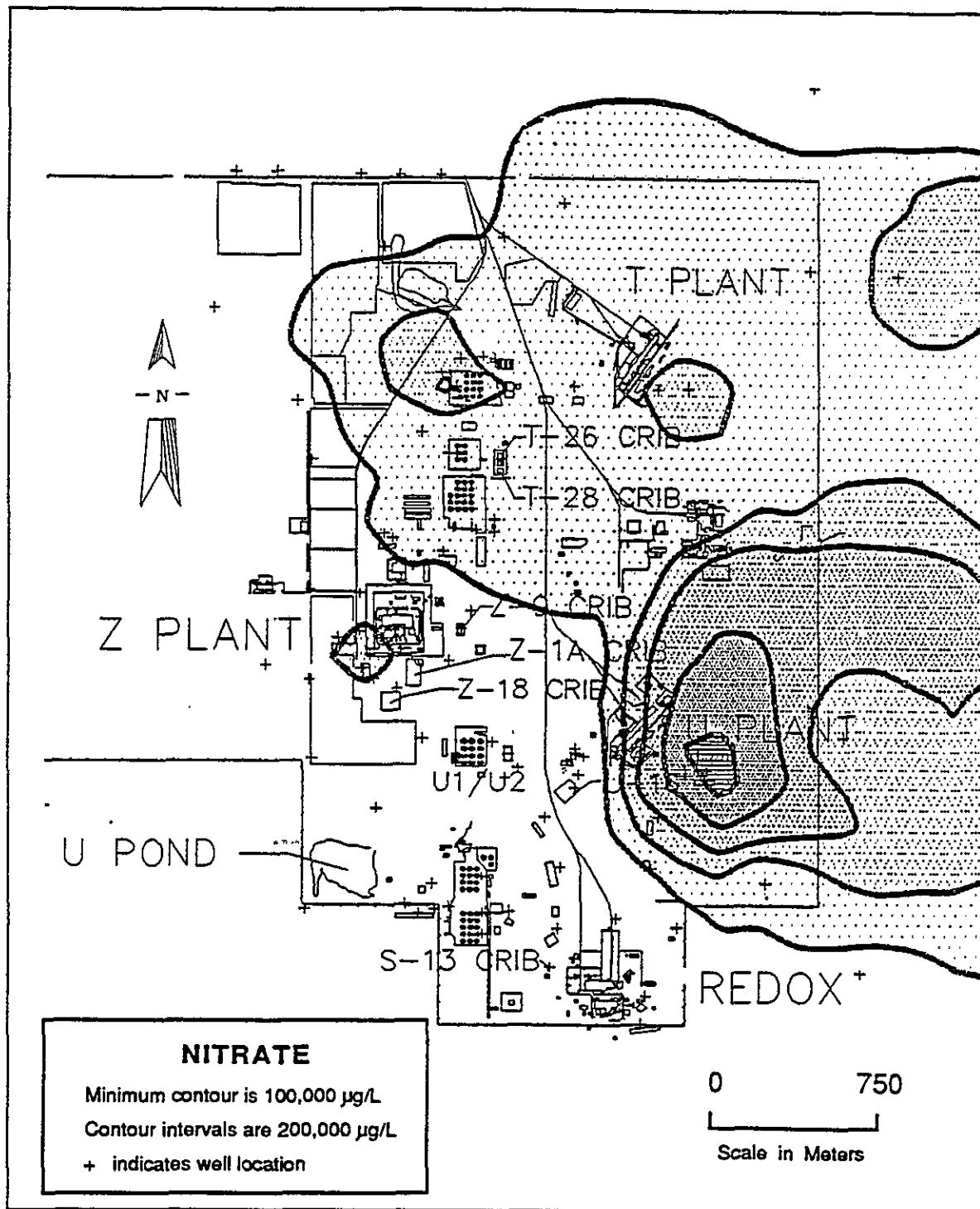


FIGURE 2.13. Nitrate Contaminant Plume in the 200-West Area

Figure 2.14 because tritium concentrations vary over several orders of magnitude in wells separated by less than 100 m. Well 199-K-30 continued to show the highest tritium concentration within the 100 Areas, with a maximum concentration of 882,000 pCi/L, somewhat lower than the maximum of 1,220,000 pCi/L in 1988. Well 199-K-27, by contrast, showed a large increase in tritium concentrations with a maximum of 172,000 pCi/L in October 1989, up from an average of 2295 pCi/L for 1988. Wells 199-K-28 and 199-K-29, located between and in proximity to the other two wells, had relatively low tritium concentrations (2200 and 8530 pCi/L, respectively). The explanation for these changes is not known.

Concentrations greater than the 2,000,000-pCi/L DCG were detected in 12 wells in the 200-East Area. The highest tritium concentrations in the 200-East Area, and throughout the Hanford Site, continued to be in wells near cribs that have received effluents from the PUREX Plant. Tritium concentrations greater than the DCG were present in wells near the 216-A-10, 216-A-36B, 216-A-37-1, and 216-A-45 Cribs. The highest ground-water tritium concentration measured in 1989 was 5,360,000 pCi/L in well 299-E17-1 (January 1989). Tritium concentrations exceeding the MCL continued to occur in most other wells affected by these cribs. A contour plot of the tritium plume in the 200-East Area is shown in Figure 2.15. Figure 2.15 provides considerably more detail concerning the higher tritium concentrations found in localized areas near sources (i.e., LWDFs) than does Figure 2.14, which is intended to address large scale movement of the dilute portion of the plume.

The movement of the widespread tritium plume (see Figure 2.14) extending from the southeastern portion of the 200-East Area to the Columbia River was consistent with patterns noted earlier (Jaquish and Bryce 1989; Evans et al. 1989b). Separate tritium pulses associated with the two episodes of PUREX operations can be distinguished in the plume. The 200,000- to 2,000,000-pCi/L lobe east of the 200-East Area near the Columbia River is a result of discharges to ground water during the operation of the PUREX Plant from 1956 to 1972. Following an 11-year shutdown, plant operation began again in 1983. Elevated tritium concentrations measured in several wells (e.g., wells 699-32-43, 699-33-42, and 699-36-46) downgradient from the 200-East Area

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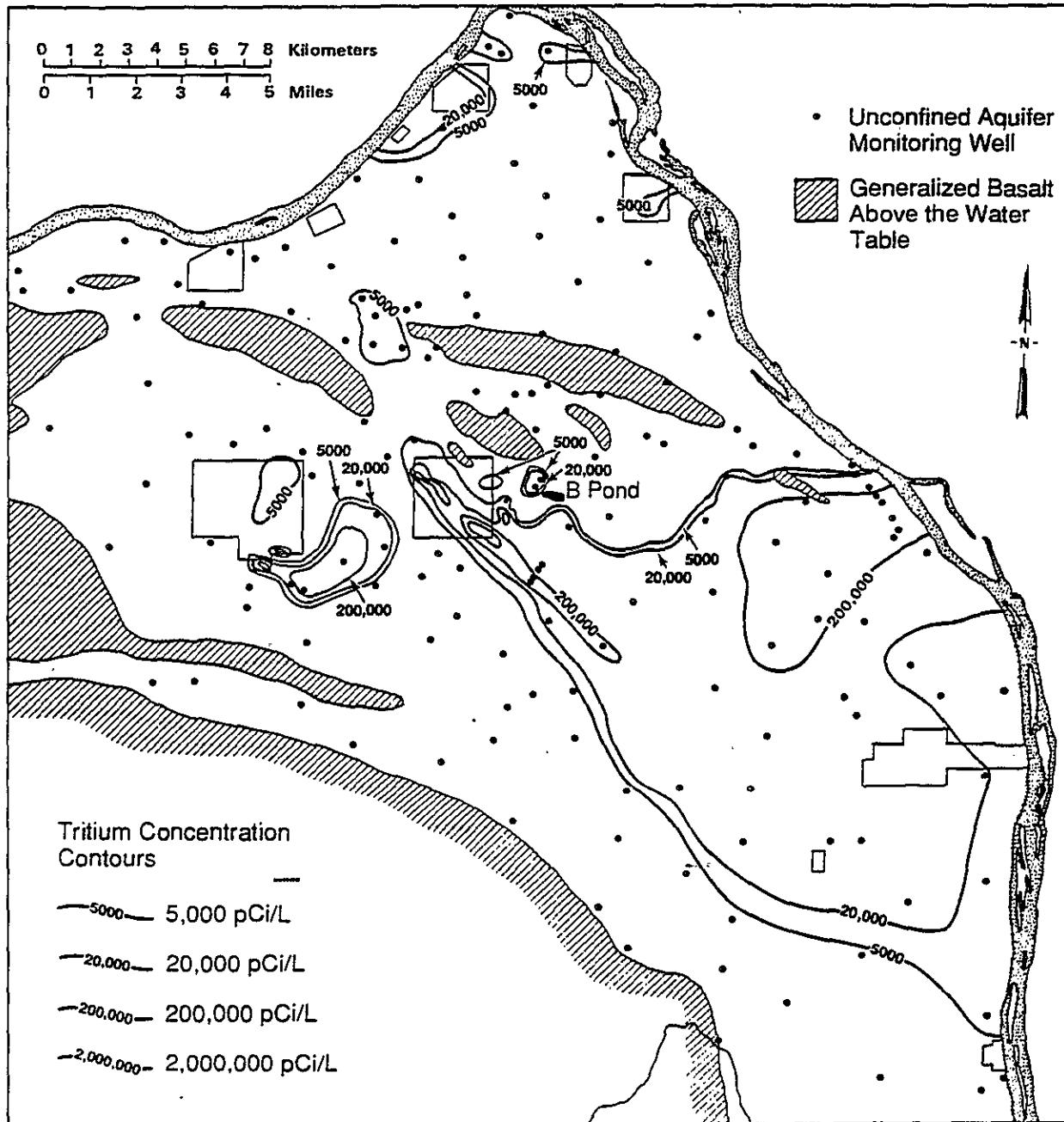


FIGURE 2.14. Distribution of Tritium on the Hanford Site

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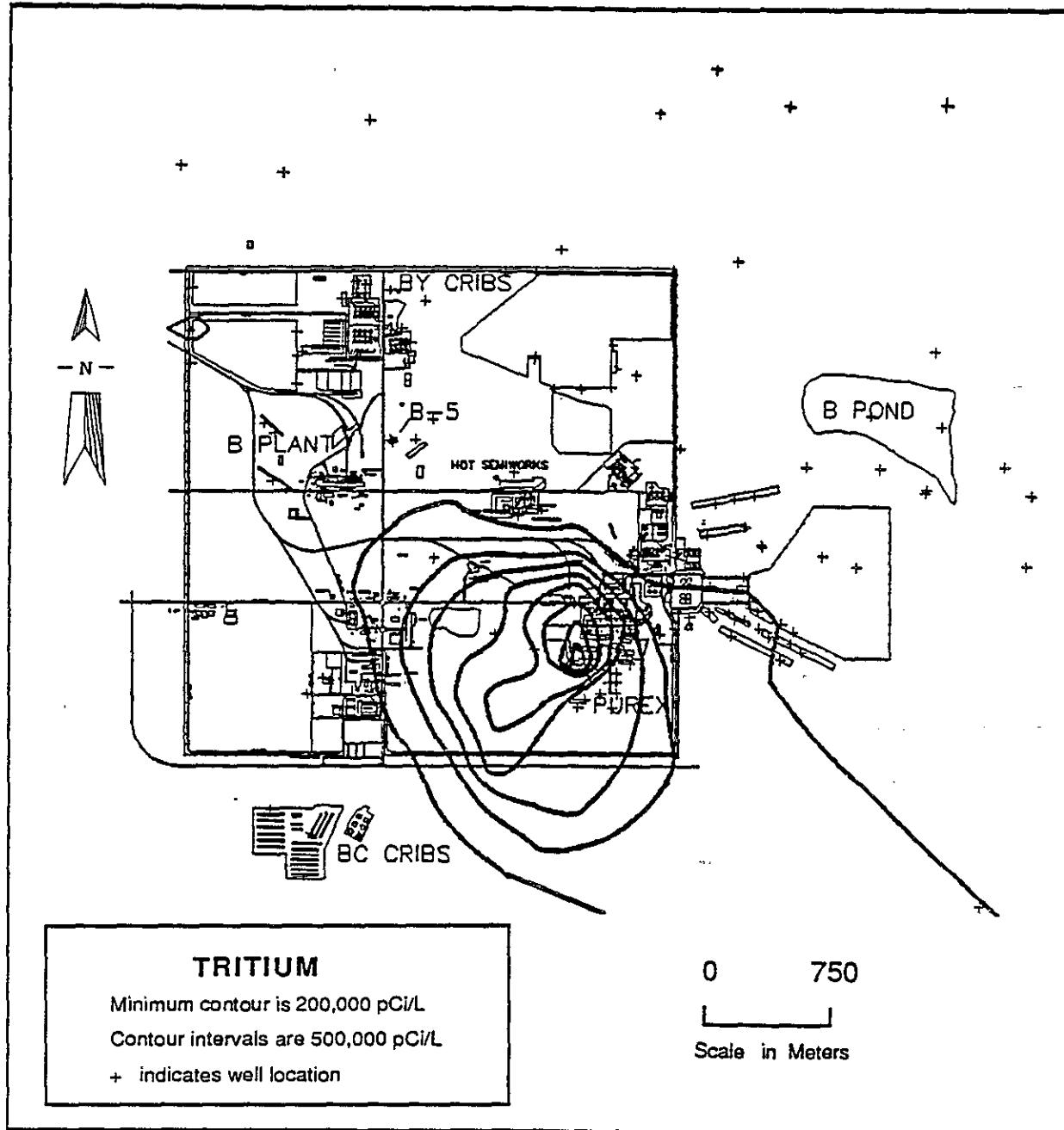


FIGURE 2.15. Tritium Plume in the 200-East Area

represent the formation of a second pulse of tritium moving away from PUREX waste disposal facilities. The more recent, short-term interruptions of PUREX operations are not discernible in the ground-water monitoring data in the plume immediately downgradient of the 200-East Area.

The eastern portion of the plume continues to move to the east-southeast and discharge into the Columbia River. Migration of the plume continued farther to the south, as indicated by increased tritium concentrations in wells near the 300 Area. Figure 2.16 shows the trend of tritium concentrations in well 699-S19-E13, located just north of the 300 Area. In recent years, this well has shown a steady increase in tritium, having reached a new maximum value of 8410 pCi/L in October 1989. The configuration of the western portion of the plume closely matches previous predictions of the current direction of contaminant movement from the 200-East Area (Freshley and Graham 1988). Movement to the south may be enhanced by the spreading ground-water mound beneath B Pond. This mound is spreading as a result of increased discharge of steam condensate and process cooling water to B Pond since 1984 when Gable Mountain Pond was deactivated.

The movement of tritium plumes in the 200-West Area was also consistent with previous observations: The plume extending from near the REDOX Plant in

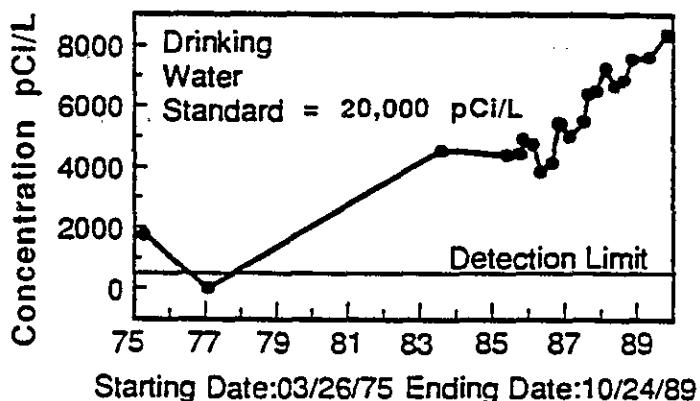


FIGURE 2.16. Tritium Concentrations in Well 699-S19-E13, March 26, 1975, to October 24, 1989

the southern part of the 200-West Area continued to move slowly to the north and east. None of the 200-West Area wells sampled in 1989 had tritium concentrations exceeding the DCG; however, well 299-W22-9 was not sampled during 1989 because of the purge water disposal considerations discussed earlier. That well had shown the highest ground-water tritium levels onsite in 1987 and 1988. The maximum concentration in that well in 1988 was 7,560,000 pCi/L. Tritium concentrations in well 299-W23-4 increased rapidly, reaching a maximum of 5,450,000 pCi/L in February 1988, followed by a rapid decrease to below the DCG during the remainder of the year. That trend continued during 1989, with the level down to 23,500 pCi/L by October 1989. The explanation of this oscillation remains unclear because that well showed negligible tritium levels during 1987. Tritium concentrations in nearby wells within the 200-West Area and in the adjacent 600 Area remained above the MCL and were relatively constant throughout 1988. Movement of the tritium plume extending north and east from the Reduction Oxidation (REDOX) Plant was indicated by changes in the tritium concentrations in several wells in the plume. Concentrations in well 699-35-70 continued to decrease slightly, suggesting that peak concentrations may have moved beyond this well although at least part of the decrease can be accounted for by decay. Concentrations in wells near the center of the plume remained relatively constant while concentrations in well 699-40-62 continued to increase slightly as the plume moved northward. The northernmost extent of the plume appeared to be near well 699-40-62. Well 699-44-64, north of well 699-40-62, has shown a small but steady increase over the last 18 months but still contains tritium concentrations near the 300-pCi/L detection limit. A contour plot of the tritium plume in the 200-West Area is shown in Figure 2.17. Figure 2.17 provides considerably more detail concerning the higher tritium concentrations found in localized areas near sources (i.e., LWDFs) than does Figure 2.13, which is intended to address large scale movement of the dilute portion of the plume. Minor differences between this plume and the plume shown in Figure 2.14 are due to the differences in controlling technique and the longer period of data used for Figure 2.17.

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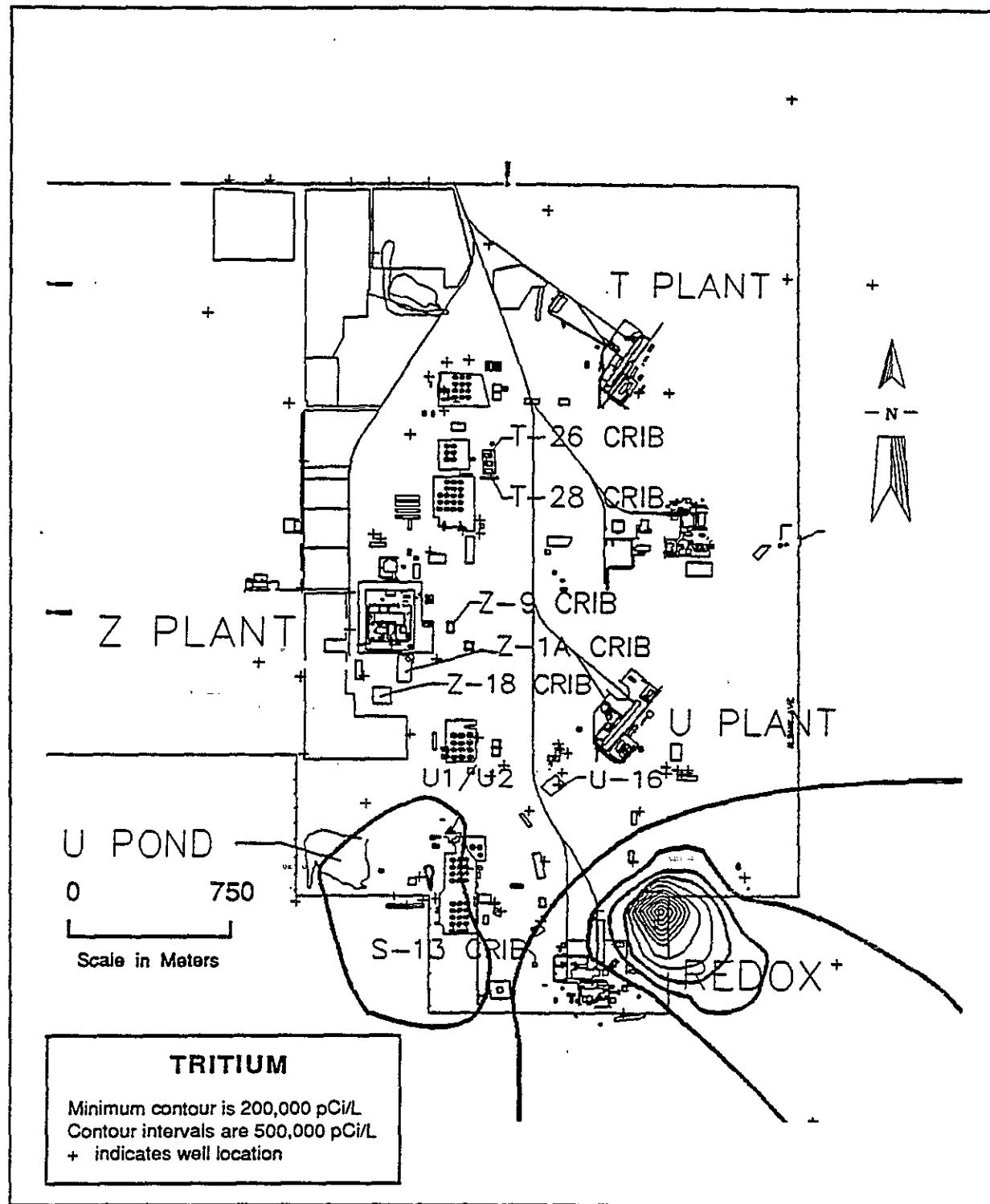


FIGURE 2.17. Tritium Plume in the 200-West Area

2.2.9 Gross Alpha Activity

Gross alpha concentrations were detected in ground water from wells in several areas and may be attributable to the presence of isotopes of plutonium and/or uranium; however, plutonium concentrations in all but three wells were below the detection limit attainable by the analytical laboratory. The MCL for gross alpha is 15 pCi/L, not including uranium. Those wells in the 100-F, 200, and 300 Areas where gross alpha exceeded 15 pCi/L contained uranium at levels that would account for the gross alpha level detected. Several wells in the 100-H Area also contained gross alpha levels exceeding the MCL. Although levels in a few wells in the 200-East Area remained somewhat above the MCL, gross alpha levels in most wells in the 200-East Area were low. The highest gross alpha levels measured on site continue to be in wells adjacent to the inactive 216-U-1 and 216-U-2 cribs. Concentrations in these wells continued to decrease over the last year. Wells adjacent to the 216-U-1 and 216-U-2 cribs contained uranium levels that would account for the gross alpha levels detected.

2.2.10 Gross Beta Activity

Gross beta concentrations greater than the 50-pCi/L MCL were found in wells throughout the Site. Gross beta levels can be attributed to one or more of the following radionuclides in ground water: potassium-40 (naturally occurring); cobalt, strontium-90, technetium-99, ruthenium-106, antimony-125, cesium-137, thorium-234, and protactinium-234 (uranium radioactive decay products); and to a lesser extent, iodine-129. Occasionally, some shorter-lived beta emitters, such as iodine-131, may also be present. Tritium is normally not detected by the method used for assay of gross beta. Gross beta activity above natural background in most cases derives from a combination of uranium and technetium-99 activity. Known exceptions include some wells in the 100-N Area and a few wells in the 200-East Area that contain strontium-90 at concentrations high enough to be detected with the gross beta technique.

Although gross beta levels greater than the MCL were widespread, the highest levels were in wells near several waste disposal facilities in the 100-N, 200-East, and 200-West Areas, and in the 600 Area adjacent to the 200 Areas. Wells in the 200-East Area with the highest gross beta levels in

1989 reflect past disposal of liquid waste to the inactive 216-B-5 reverse well, BY Cribs, and cribs near the PUREX Plant. Gross beta levels in wells 299-E28-23 (8500 pCi/L) and 299-E28-25 (8100 pCi/L) near the 216-B-5 reverse well were some of the highest measured on site in 1989. All wells near this reverse well contained elevated levels of strontium-90, and two wells also contained measurable cesium-137. The 216-B-5 reverse well received an estimated 27.9 Ci of strontium-90 and 31.8 Ci of cesium-137 (both values decayed through April 1, 1986) when used from 1945 to 1947 (Stenner et al. 1988). The BY Cribs received waste from U Plant. Wells monitoring the BY Cribs (located at the north end of the 200-East Area) showed gross beta levels greater than the MCL, ranging up to 1440 pCi/L (well 699-50-53). The BY Crib monitoring wells generally contained cobalt-60 and technetium-99.

The highest gross beta levels in the 200-West Area were found in wells near U Plant. Gross beta levels in wells near the 216-U-1 and 216-U-2 Cribs remained above the MCL but are generally decreasing. Gross beta levels in these wells are dominated by uranium radioactive decay products. Gross beta levels remained above the MCL in several wells near Gable Mountain Pond. These wells contain relatively high concentrations of strontium-90, which would account for the gross beta level measured.

The highest gross beta levels on site in 1989 were found in wells monitoring the 1301-N LWDF. Well 199-N-67 showed a gross beta concentration of 24,100 pCi/L in October 1989. The observed concentrations at this location are primarily due to strontium-90.

#### 2.2.11 Cobalt-60

Most cobalt-60 concentrations were consistently near or below the detection limit (20 pCi/L), except in the 100-N Area and in isolated portions of the 200-East Area and adjacent 600 Area. Concentrations of cobalt-60 were above detection but have dropped below the 100-pCi/L MCL in several wells near the 1325-N LWDF. The highest concentrations of cobalt-60 in Hanford Site ground water during 1989 were in well 699-50-53 (532 pCi/L), directly north of the 200-East Area; these concentrations were essentially unchanged from a year ago. Cobalt-60 in this well appears to be highly mobile, probably because of the presence of a soluble cobalt-cyanide (or ferrocyanide) complex associated

with the plume originating in the BY Cribs. A contour plot of the cobalt-60 concentrations in the 200-East Area ground water is given in Figure 2.18 showing the measurable concentrations of cobalt-60 found north of the BY Cribs. No wells exceeded the 5000-pCi/L DCG for cobalt-60.

#### 2.2.12 Strontium-90

Concentrations of strontium-90 were above the 8-pCi/L MCL in wells in the 100-B, 100-D, 100-F, 100-K, 100-N, 200-East, 200-West, and 600 Areas. Concentrations of strontium-90 were greater than the 1000-pCi/L DCG in the 100-N and 200-East Areas, ranging up to 23,400 pCi/L in the 100-N Area near the 1301-N LWDF (see Figure 2.19), and up to 5740 pCi/L in the 200-East Area near the 216-B-5 reverse well (see Figure 2.20). A computer-generated contour plot of the strontium-90 distribution in the 200-East Area ground water is given in Figure 2.20. Figure 2.20 probably overestimates the size of the plume; however, the lack of wells spaced over most of that area makes it difficult to precisely delineate the bounds of the plume. Concentrations of strontium-90 above the MCL (maximum of 301 pCi/L in well 699-53-48B) but less than the DCG were detected in several wells near Gable Mountain Pond.

#### 2.2.13 Technetium-99

An extensive program (under the Ground-Water Surveillance Project) to analyze ground-water samples for technetium-99 was continued during 1989. Concentrations greater than the 900-pCi/L MCL were detected in wells in the 100-H, 200-East, and 200-West Areas and in portions of the 600 Area. None of the wells had concentrations exceeding the 100,000-pCi/L DCG. The highest concentrations of technetium-99 on the Site were measured in well 299-W19-24 (41,000 pCi/L), downgradient of the inactive 216-U-1 and 216-U-2 Cribs in the 200-West Area (see Figure 2.21). The technetium-99 plume associated with well 299-W19-24 appears to have originated from the 216-U-1 and 216-U-2 Cribs, which had received a large amount of uranium recovery waste in the past. Technetium has generally been observed to follow uranium throughout the uranium recovery and recycling process. Technetium-99 levels in that group of wells generally continued to increase during 1989.

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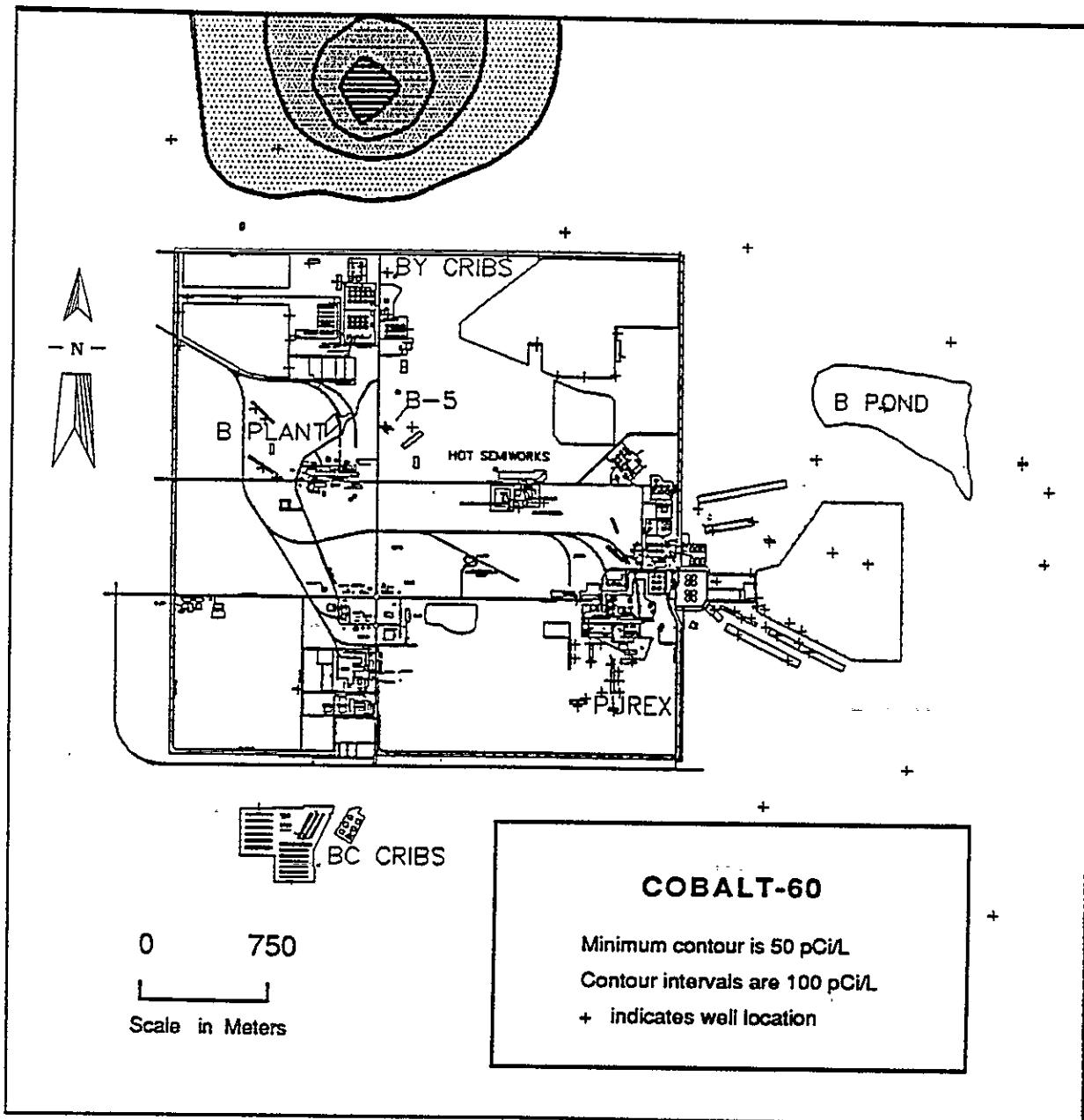


FIGURE 2.18. Cobalt-60 Plume in the 100-H Area

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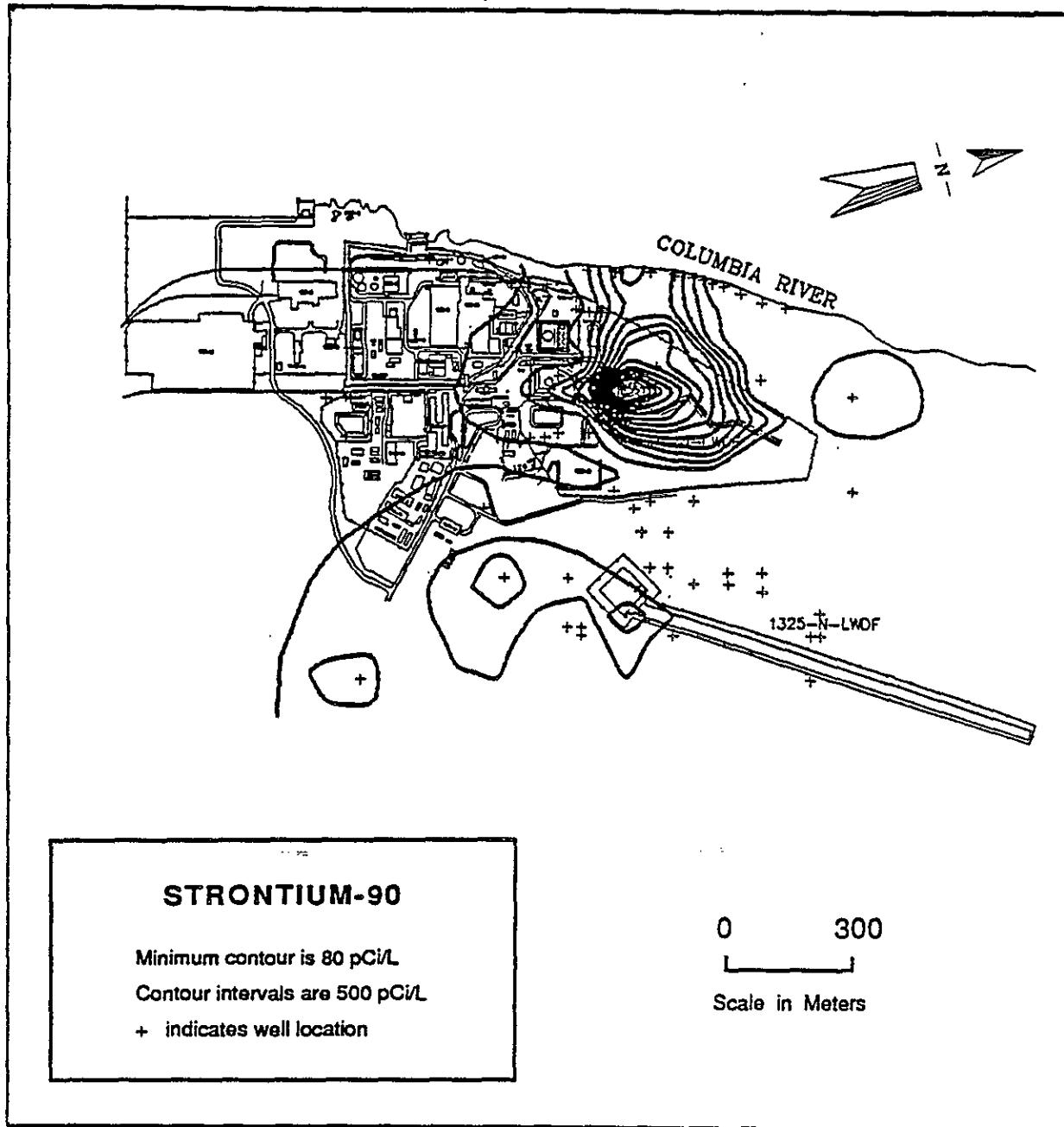


FIGURE 2.19. Strontium-90 Plume in the 100-N Area

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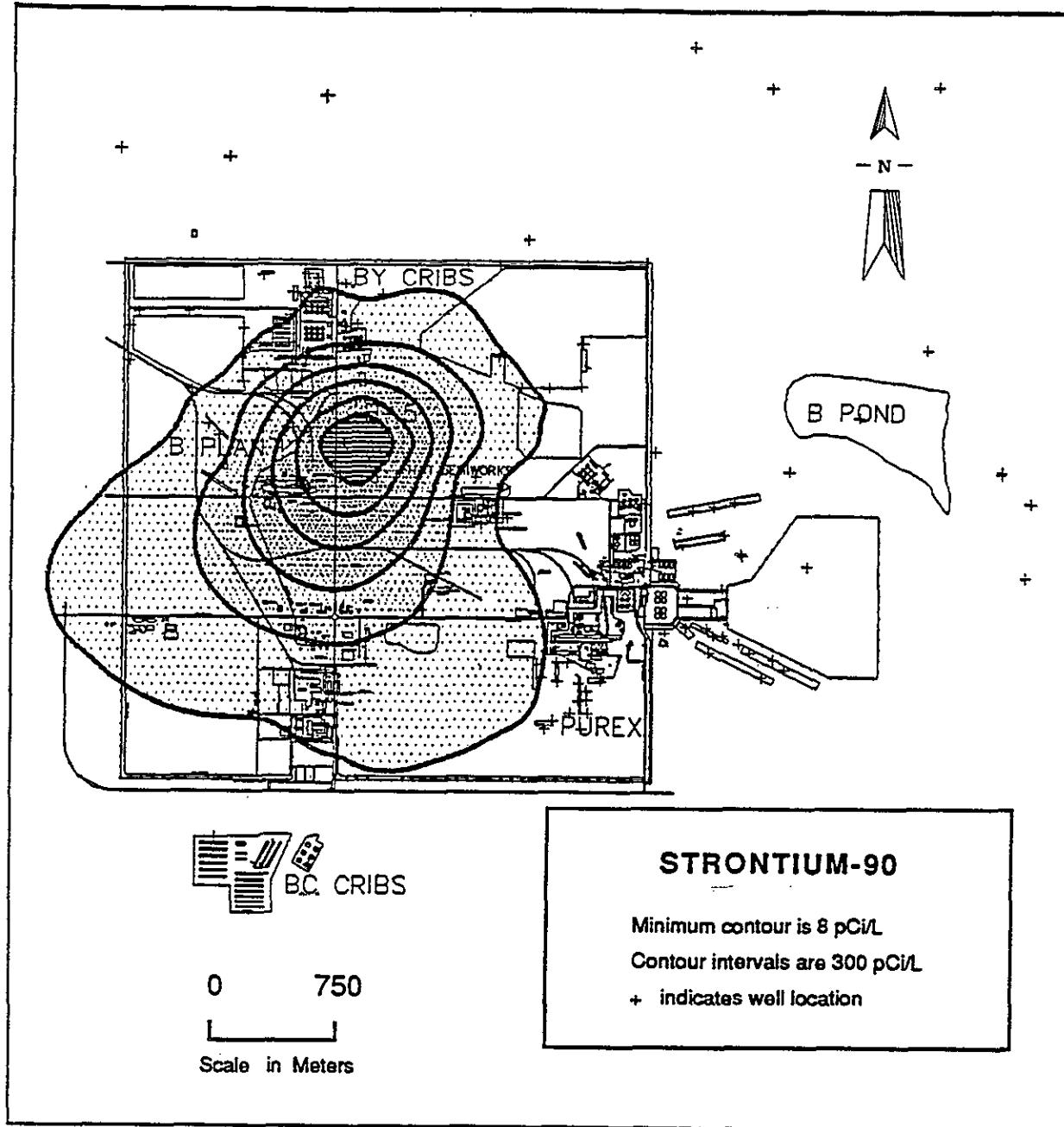


FIGURE 2.20. Strontium-90 Plume in the 200-East Area

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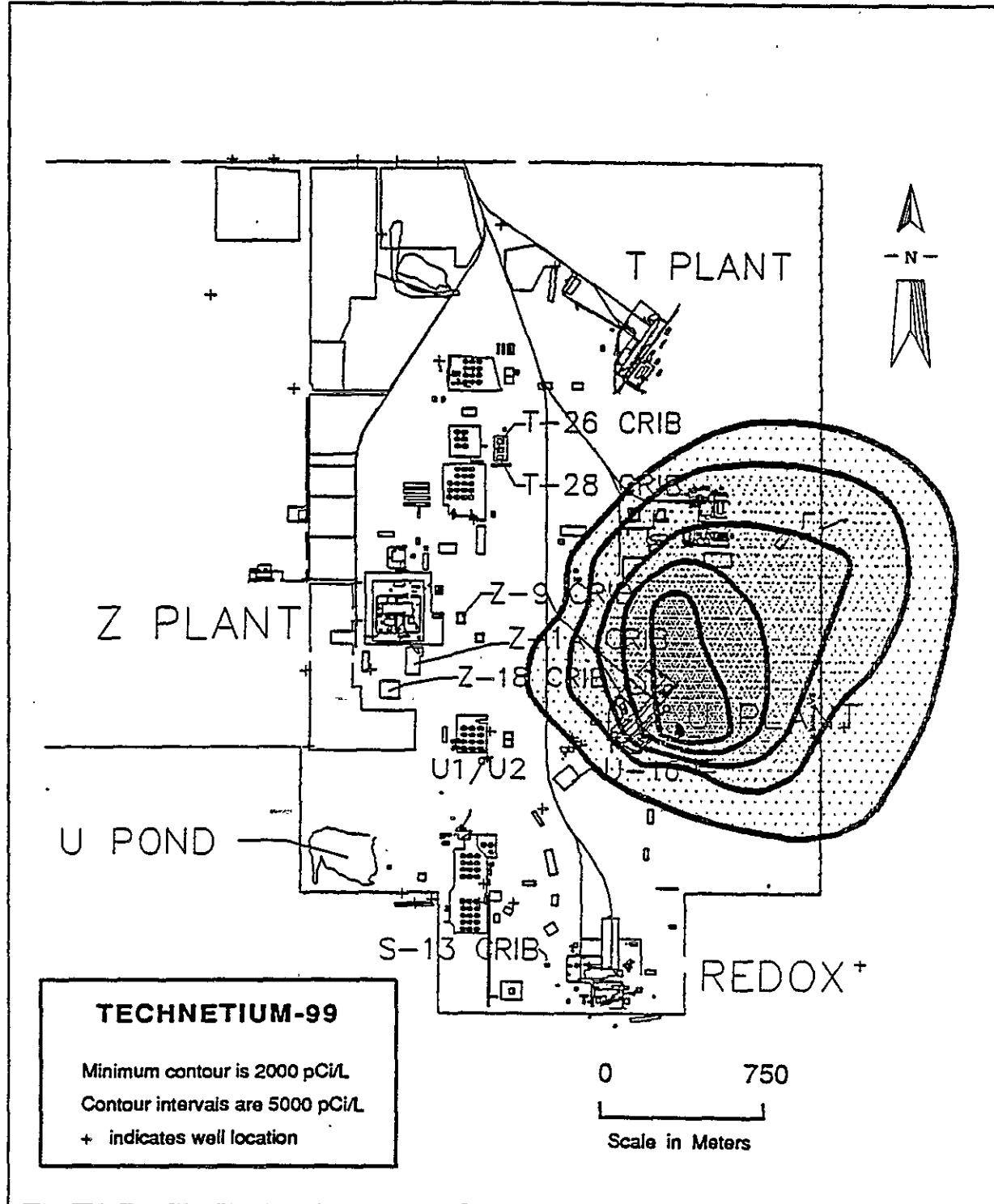


FIGURE 2.21. Technetium-99 Plume in the 200-West Area

A sizable technetium plume has also been observed north of the 200-East Area (see Figure 2.22). The plume is similar in size, shape, and location to the cyanide (Figure 2.2), nitrate (Figure 2.12), and cobalt-60 (Figure 2.18) plumes found in the same area resulting from waste disposed to the BY Cribs.

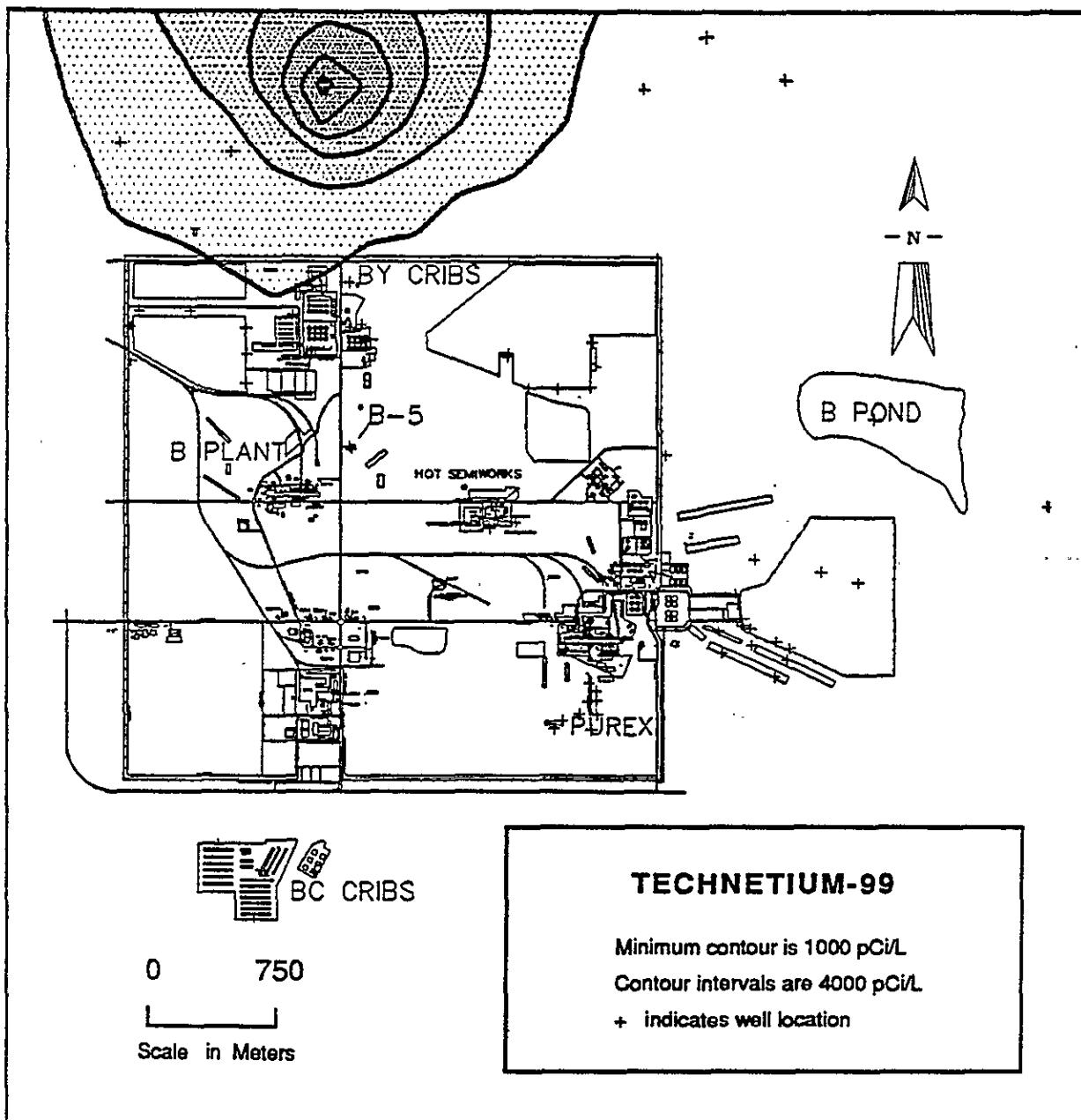


FIGURE 2.22. Technetium-99 Plume in the 200-East Area

#### 2.2.14 Ruthenium-106

Because of its short half-life (367 days), ruthenium-106 was detected in the past principally in wells located in areas near operating reactors and is detected currently near active fuel reprocessing facilities. Past examples have included the 100-N Area and the 200-East Area near the PUREX Plant. Concentrations in wells in the 100-N Area were at most marginally detectable in 1987 and continued to decline in 1988 because the N Reactor was in cold standby. Ruthenium-106 was undetectable in the 100-N Area in 1989 by routine detection methods. Concentrations of ruthenium-106 in wells near LWDFs receiving effluents from the PUREX Plant generally increased in 1988, with well 299-E24-12 reaching a maximum of 547 pCi/L (MCL is 200 pCi/L) in April 1988. That trend reversed in 1989 as a result of interruption in the operation of PUREX, with the ruthenium-106 concentrations in well 299-E24-12 dropping to below detectable levels. A ruthenium-106 concentration of 257 pCi/L was found in well 299-E17-15 in September 1989. That was the only well showing detectable ruthenium-106 during 1989.

#### 2.2.15 Antimony-125

Antimony-125 a gamma emitter, was measured in 100-N Area wells near the 1325-N LWDF. Results ranged up to 93.6 pCi/L in well 199-N-32. Well 199-N-45, which had the highest antimony-125 in 1988, was not analyzed for that radionuclide in 1989. The MCL for antimony-125 is 300 pCi/L, and the DCG is 60,000 pCi/L.

#### 2.2.16 Iodine-129

The presence of iodine-129 in ground water is significant, because of its relatively long half-life (16 million years), its potential for accumulation in the environment as a result of long-term releases from nuclear fuel reprocessing facilities (Soldat 1976), and its relatively low MCL (1 pCi/L). At Hanford, the main contributor of iodine-129 to ground water has been liquid discharges to cribs in the 200 Areas. The expanded iodine-129 monitoring effort that began in 1988 was continued in 1989. The highest concentration reported in 1989 was 11.1 pCi/L in well 699-35-70 down from 88 pCi/L in 1988. This well is located just outside the 200-West Area boundary and downgradient

from the REDOX Plant. A contour plot of the iodine-129 distribution in the 200-West Area ground water is shown in Figure 2.23. As indicated, two or more sources are associated with both the U Plant and REDOX facilities.

Elevated iodine-129 concentrations in the 200-East Area ground water are clearly associated with LWDFs serving the PUREX plant as shown in Figure 2.24.

While many wells sampled in both the 200-West and 200-East Areas had concentrations above the MCL, none were above the DCG (500 pCi/L). A few wells sampled in the 600 Area tritium plume also had iodine-129 concentrations slightly above the MCL.

#### 2.2.17 Iodine-131

Because iodine-131 has a short half-life (8.04 days), it typically has only been detected in ground water near discharge locations (100-N Area wells). Iodine-131 was not detected in any Hanford Site wells during 1989 because the N Reactor was in cold standby and iodine-131 was not discharged to ground water.

#### 2.2.18 Cesium-137

Concentrations of cesium-137 were below the detection limit (23 pCi/L) except in three wells located near the 216-B-5 reverse well. Ground water sampled at well 299-E28-23 contained 844 pCi/L; ground water at well 299-E28-25 contained 1070 pCi/L. The concentration in well 299-E28-25 represents a 10- to 20-fold increase over previous measurements. A similar increase occurred in plutonium concentrations measured concurrently on separate samples from the same well. The increase appears to be associated with a change in sample collection protocol involving acidification of the collected sample; previously, samples for radiological analysis were untreated in the field. In addition, cesium-137 was detected for the first time in nearby well 299-E28-24 (33 pCi/L). A computer-generated contour plot of the cesium-137 distribution in the 200-East Area ground water is given in Figure 2.25. Figure 2.25 probably overestimates the size of the plume; however, the lack of wells spaced over most of that area makes it difficult to precisely delineate the bounds of the plume. The 216-B-5 reverse well received an estimated 31.8 Ci of cesium-137 (decayed through April 1, 1986)

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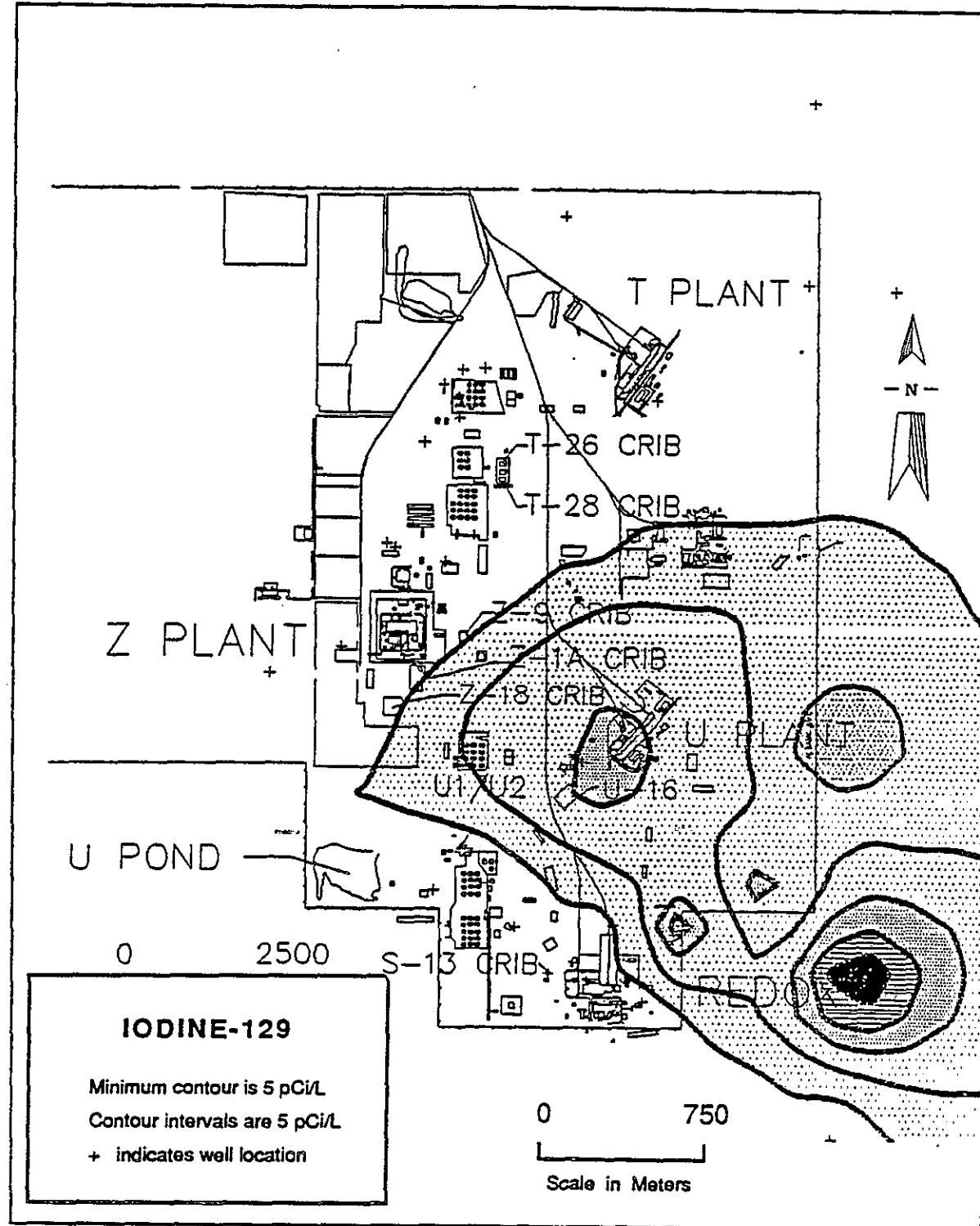


FIGURE 2.23. Iodine-129 Plume in the 200-West Area

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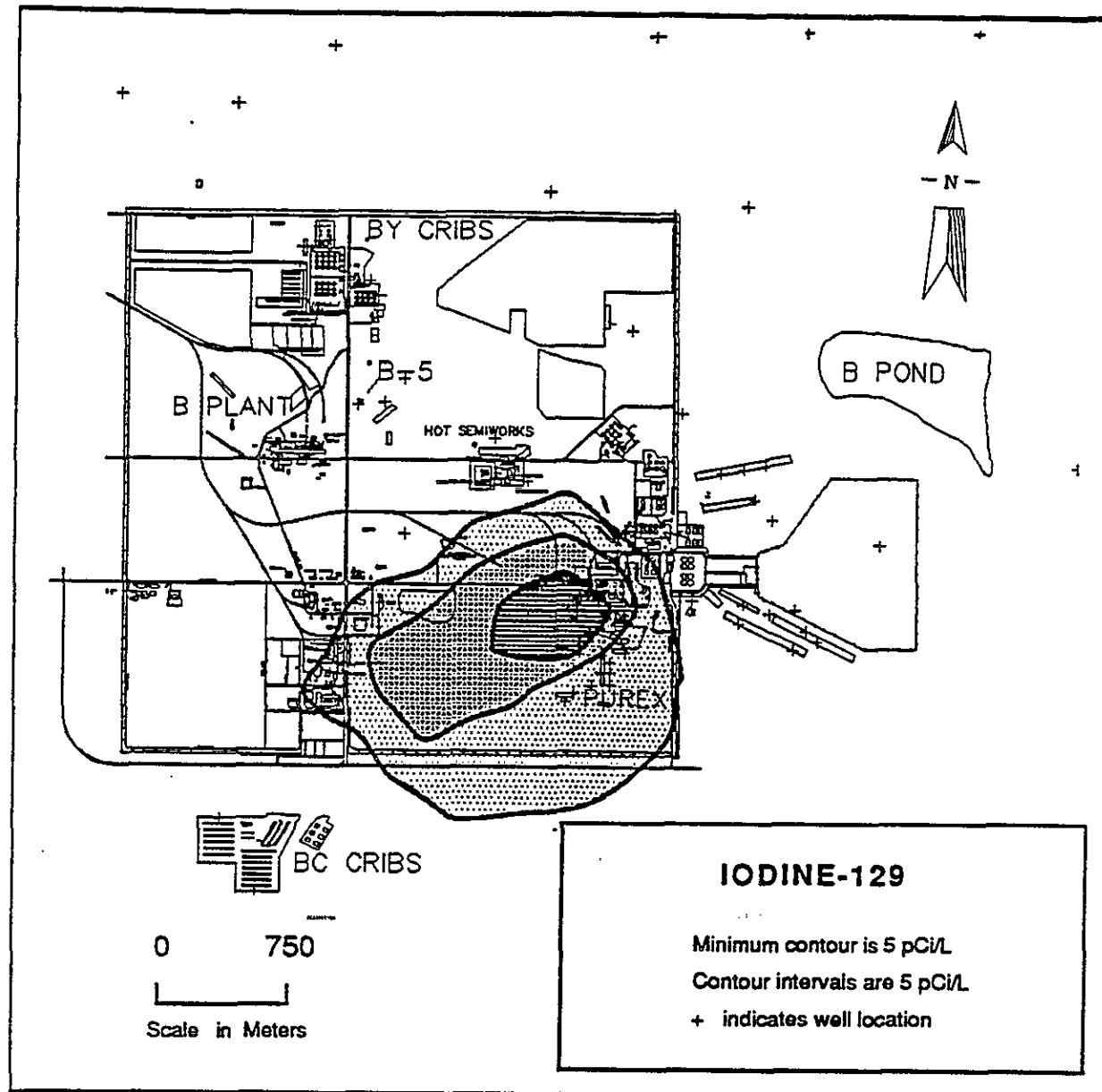


FIGURE 2.24. Iodine-129 Plume in the 200-East Area

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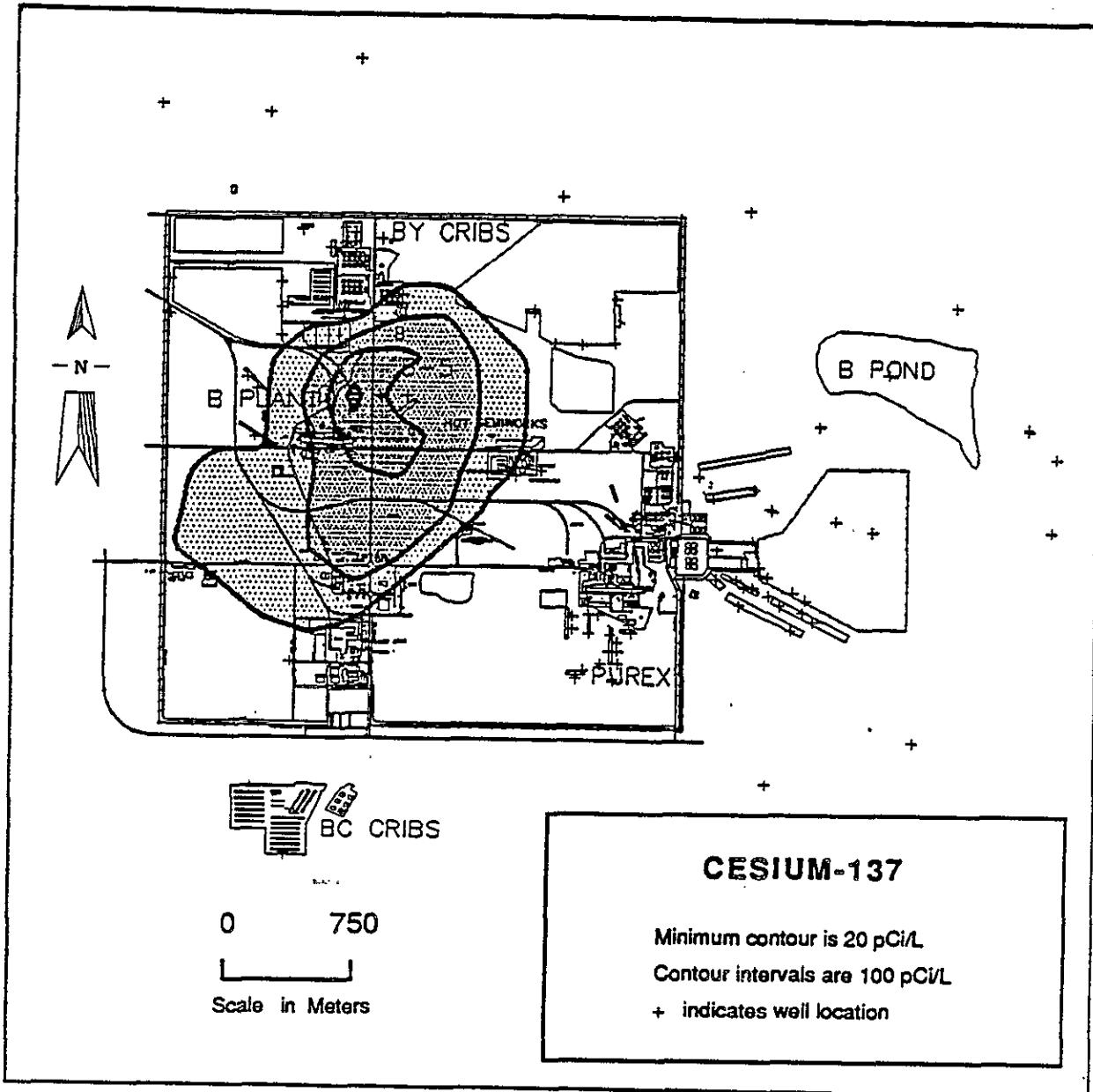


FIGURE 2.25. Cesium-137 Plume in the 200-East Area

during its operation from 1945 to 1947 (Stenner et al. 1988). The MCL for cesium-137 is 200 pCi/L, and the DCG is 3000 pCi/L.

#### 2.2.19 Uranium

The highest uranium levels in Hanford ground water occur in wells adjacent to the inactive 216-U-1 and 216-U-2 Cribs (Baker et al. 1988). Uranium concentrations in these wells have been decreasing over the last 3 years following remediation activities associated with those cribs. In February 1985, it was discovered that uranium concentrations in the ground water below the cribs had abruptly increased from a background of about 166 to about 72,000 pCi/L. Ground water was pumped through an ion exchange column from June 13, 1985, to November 26, 1985. Eight million gallons of water were pumped, removing 687 kg of uranium. The maximum uranium concentration in ground water sampled from nearby wells dropped from about 72,000 to 17,000 pCi/L during the remediation (Baker et al. 1988). The total uranium concentration in well 299-W19-3 has continued to drop from 16,000 pCi/L in January 1987 to 2000 pCi/L in March 1989. Uranium concentrations in other nearby wells also tended to decrease over the past 3 years and now appear to have stabilized. A contour plot of the uranium distribution in the 200-West Area ground water is shown in Figure 2.26.

There is a small uranium plume in the northwest corner of the 200-East Area downgradient of B Plant. The source of the plume is believed to be the 216-B-12 Crib, which received an estimated 7 Ci or 20,700 kg of uranium (Stenner et al. 1988) during its operation between 1957 and 1973. A contour plot of the uranium distribution in the 200-East Area ground water is presented in Figure 2.27.

Uranium levels increased sharply in two 100-F Area wells in 1987. Levels in well 199-F8-1 reached a maximum of 414 pCi/L in January 1988 and generally have decreased thereafter, dropping to a low of 91 pCi/L in October 1989. A similar trend occurred in well 199-F8-2.

A uranium plume exists in the 100-H Area near the 183-H Solar Evaporation Basins. The maximum uranium concentration during 1989 in the 100-H Area ground water was 89 pCi/L in well 199-H4-4.

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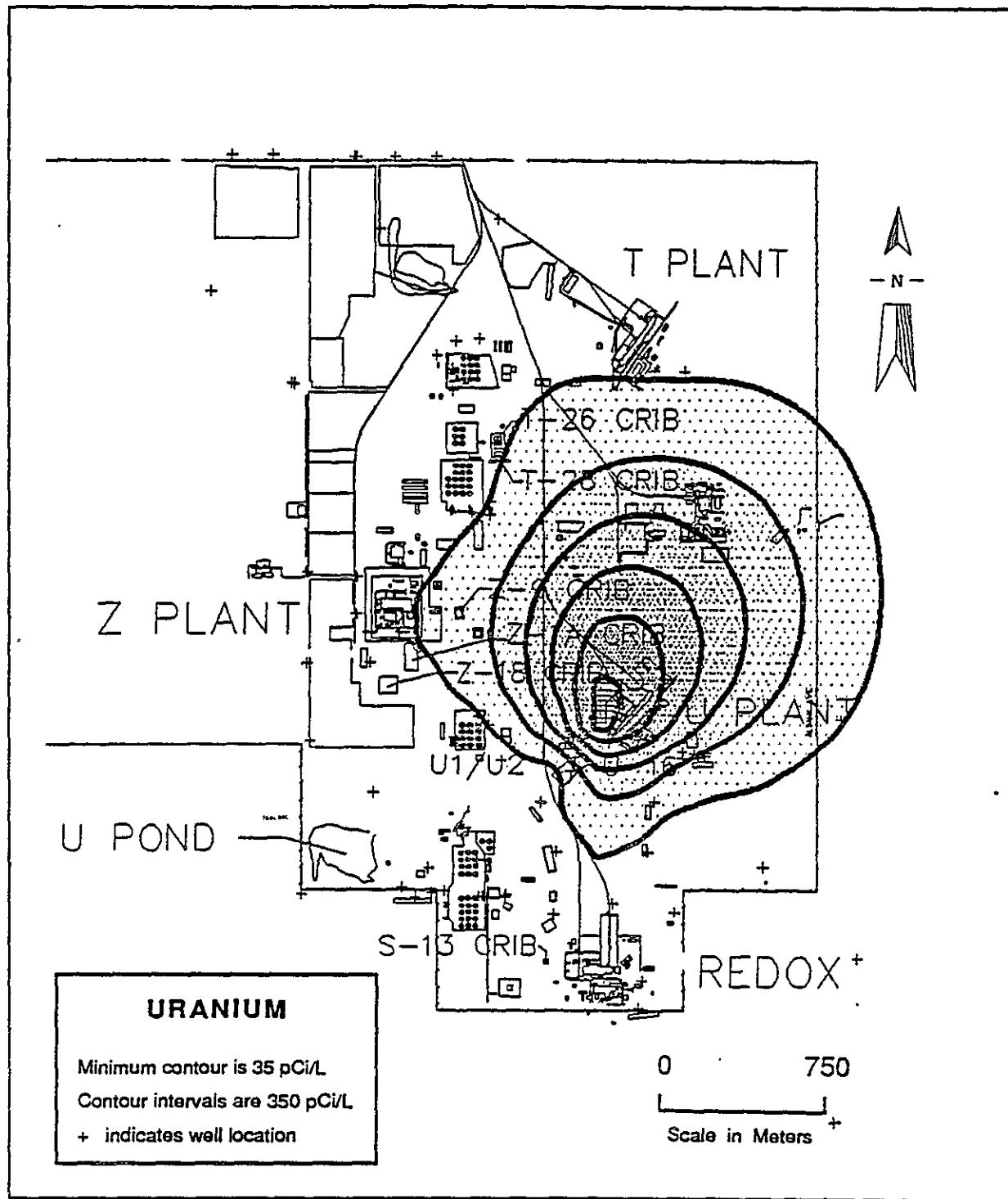


FIGURE 2.26. Uranium Plume in the 200-West Area

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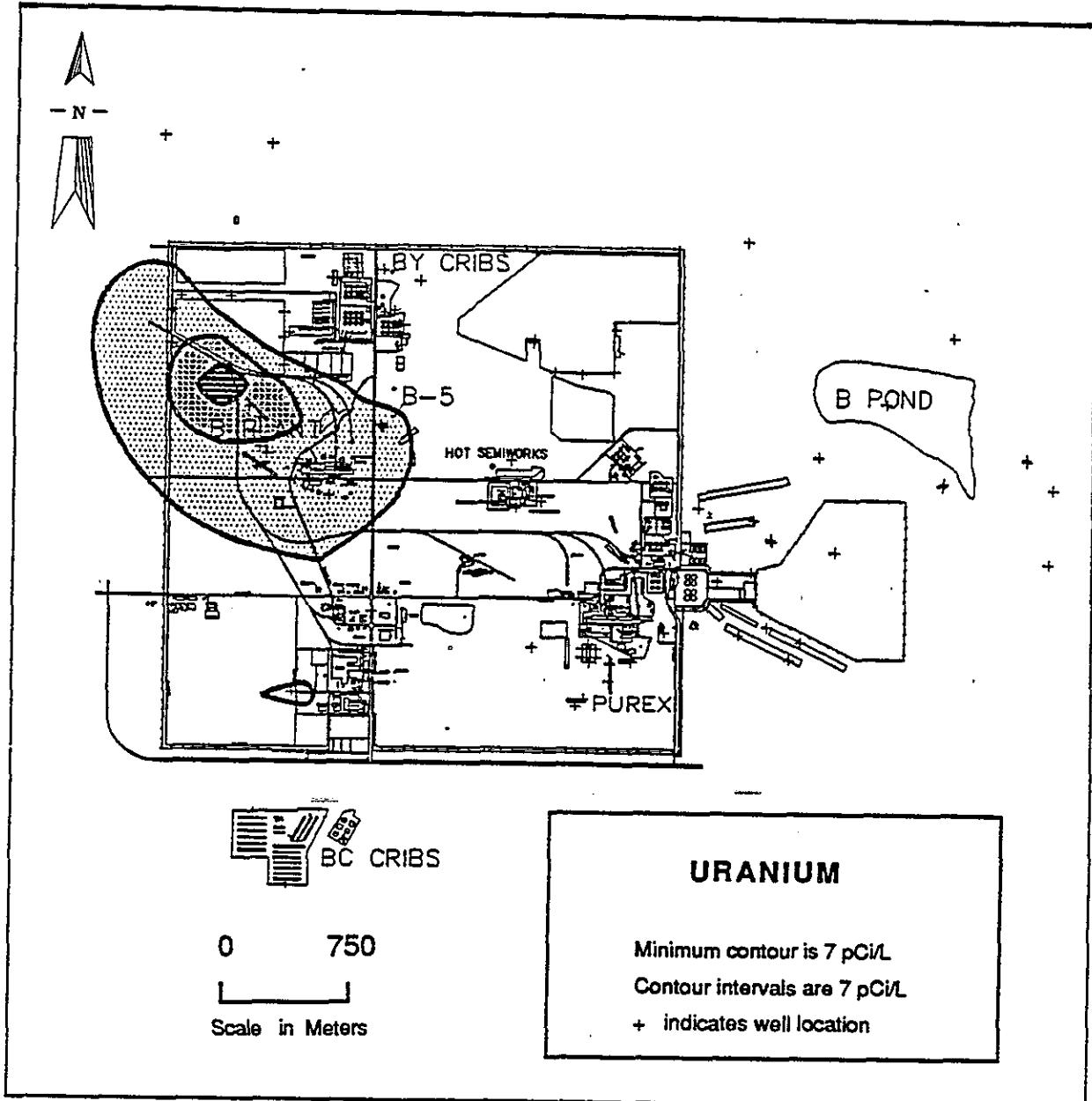


FIGURE 2.27. Uranium Plume in the 200-East Area

A plume of uranium also exists in the unconfined aquifer beneath the 300 Area in the vicinity of uranium fuel fabrication facilities and inactive waste sites known to have received uranium waste. The extent of the plume was limited to an area downgradient from active and inactive LWDFs. Uranium concentrations in wells in and adjacent to the 300 Area ranged up to 255 pCi/L during 1989. These concentrations were similar to those measured in previous years. A contour plot of the uranium concentrations in 300 Area ground water is given in Figure 2.28. Figure 2.28 shows the possible presence of more than one plume with the main plume centered very close to and downgradient from the 300 Area Process Trenches with two minor concentration centers to the south, which may be associated with the North and South Process Ponds. That interpretation is consistent with isotopic ratio measurements documented in Evans et al. 1989, which showed that the northern component of the plume contains isotopically enriched uranium while the uranium-235/uranium-238 ratio in the samples collected south of the South Process Pond are consistent with natural isotopic abundance. Uranium disposed to the South Process Pond during the earliest days of the project was unenriched, whereas modern operations have employed enriched uranium for fuel fabrication.

#### 2.2.20 Plutonium

As was the case for cesium-137, concentrations of plutonium-239 were below the detection limit in all wells, except three wells located near the 216-B-5 reverse well. Typically, both plutonium and radiocesium bind strongly to sediments and thus have limited mobility in the aquifer. Ground water sampled at well 299-E28-23 contained 7.2 pCi/L of plutonium-239 ground water at well 299-E28-25 contained 72 pCi/L. The measurement in well 299-E28-25 represents a 10- to 20-fold increase over previous measurements. A similar increase was also seen in cesium-137 concentrations measured concurrently on separate samples from the same well. The increase is believed to be the result of a change in sample collection protocol (see discussion of cesium-137 results). In addition, plutonium-239 was detected for the first time in nearby well 299-E28-24 (72 pCi/L). The 216-B-5 reverse well received an estimated 244 Ci of plutonium-239 during its operation from 1945 to 1947 (Stenner et al. 1988). The DCG of 300 pCi/L for plutonium-239 has been

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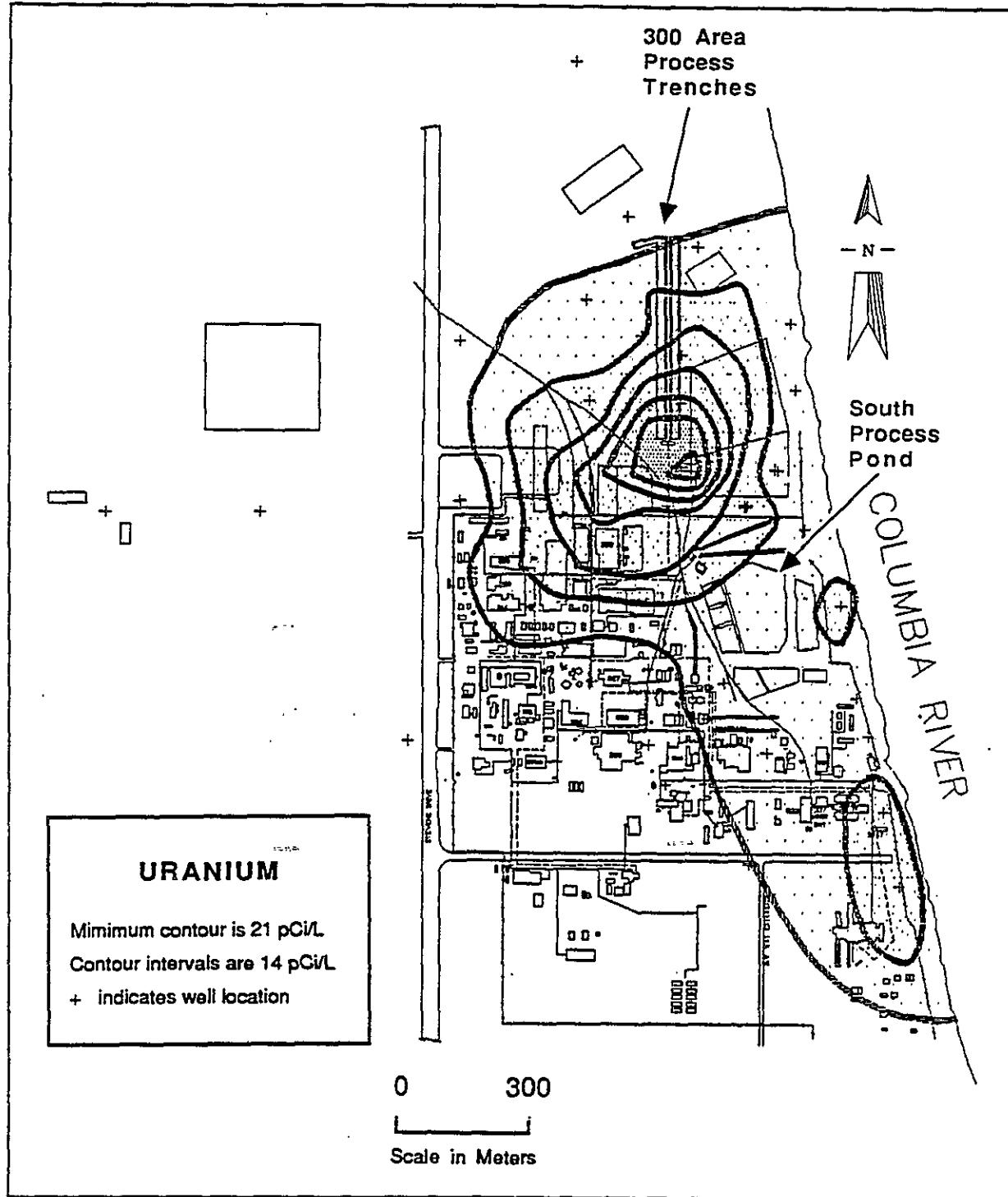


FIGURE 2.28. Uranium Plumes in the 300 Area

reduced to 30 pCi/L effective February 1990. There is no explicit MCL for plutonium-239; however, the gross alpha MCL of 15 pCi/L is applicable.

### 2.3 RICHLAND WATER SUPPLY WELLS

During 1989, ground water from 12 monitoring wells in the southern portion of the Hanford Site was sampled and analyzed for hazardous chemicals and radiological constituents to assess water quality in the vicinity of the Richland water supply wells. Five of these monitoring wells were constructed adjacent to the North Richland well field by Westinghouse Hanford Company during 1988 (Bryce and Goodwin 1989). No contaminants were observed in concentrations above the MCL.

Trace levels of a single organic constituent were observed in ground-water samples from well 11-41-13C. Samples contained 8  $\mu\text{g}/\text{L}$  trichloroethane. The MCL for trichloroethane is 200  $\mu\text{g}/\text{L}$ . The origin of trichloroethane in this well is uncertain. This region is currently being characterized through a remedial investigation under CERCLA.

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APPENDIX A

MAPS OF OPERATIONAL AND FACILITY-SPECIFIC MONITORING WELL NETWORKS

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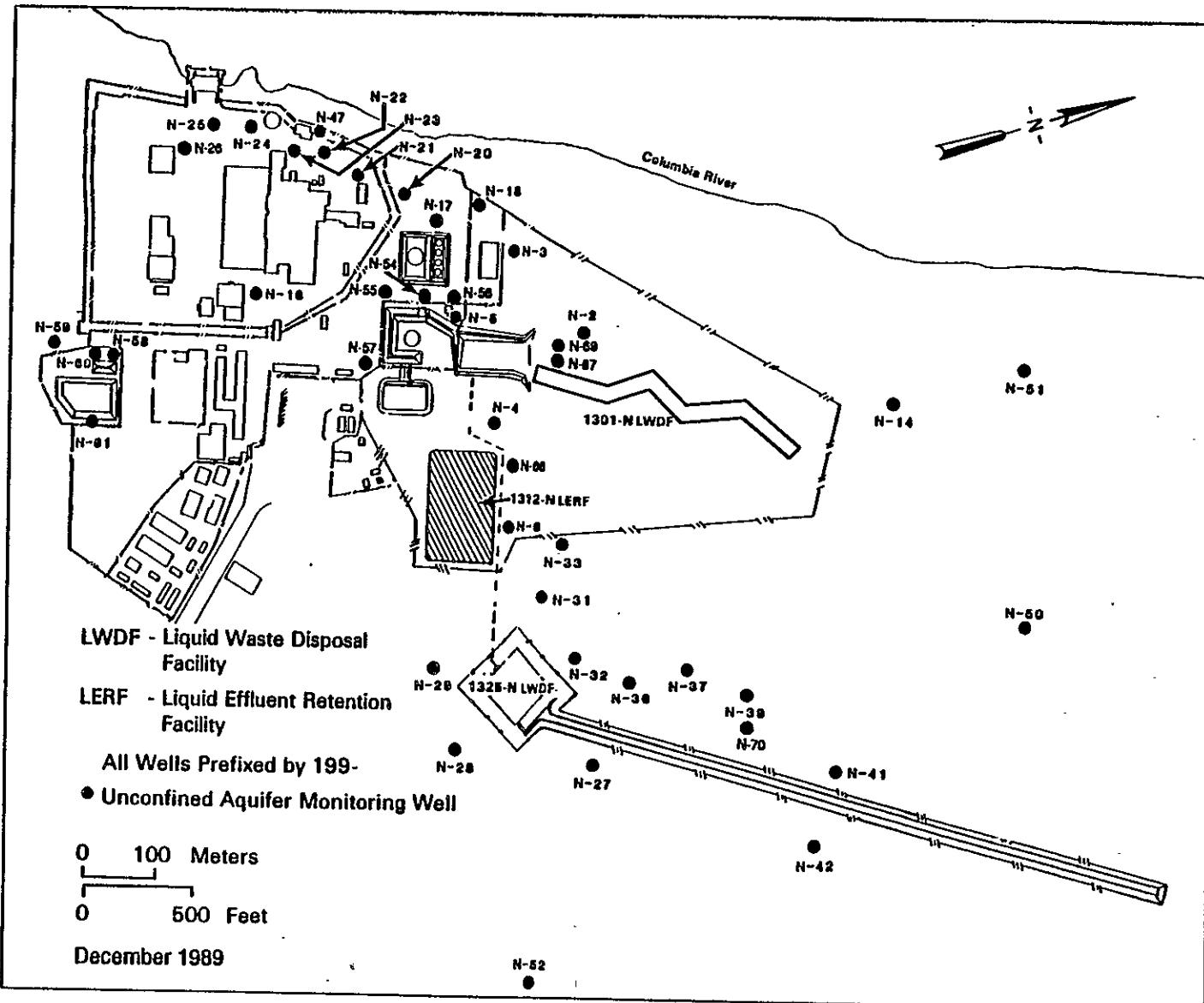


FIGURE A.6. Well Location Map for the 100-N Area

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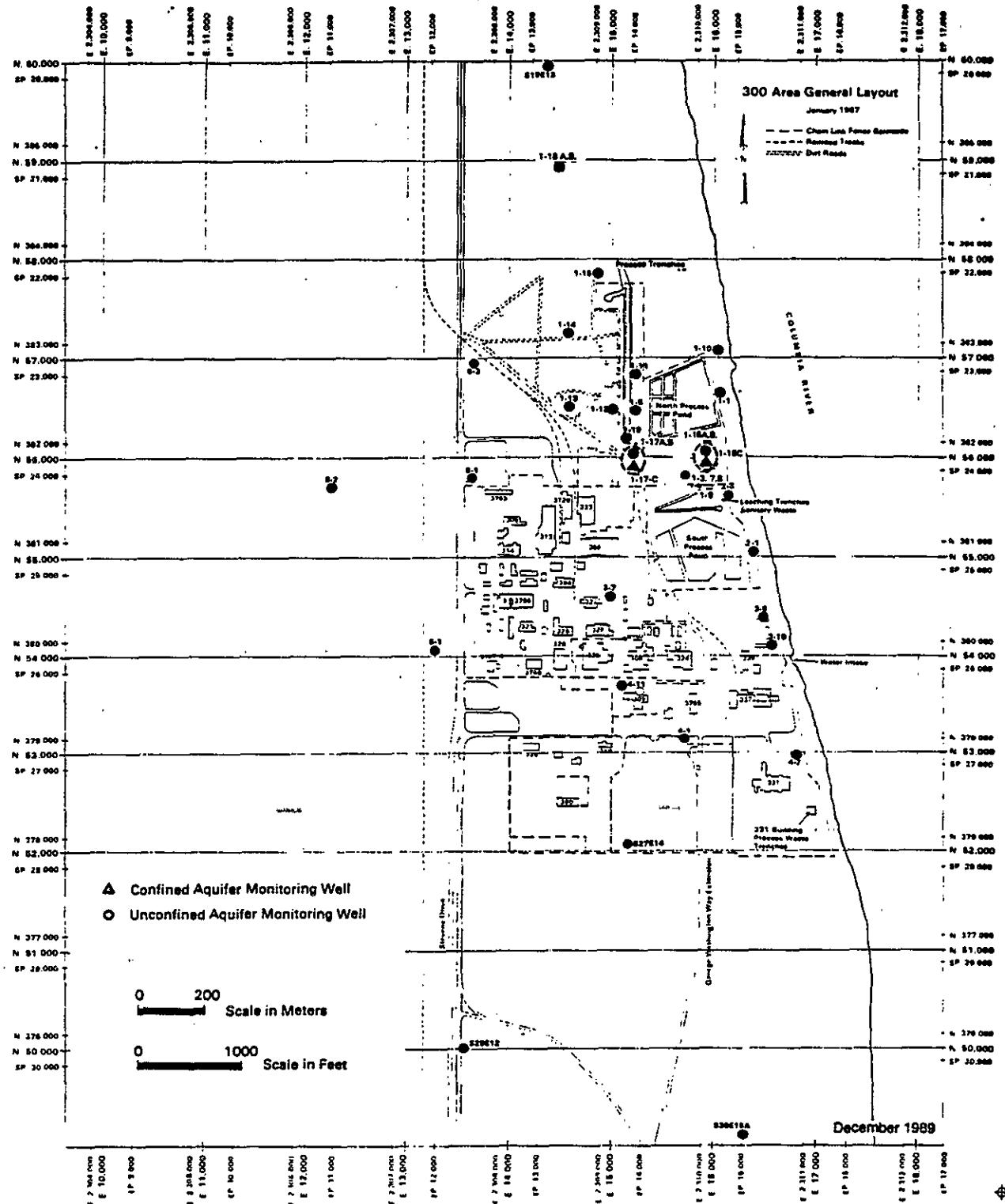


FIGURE A.9. Well Location Map for the 300 Area

9 2 1 2 6 3 9 0 0 7 6

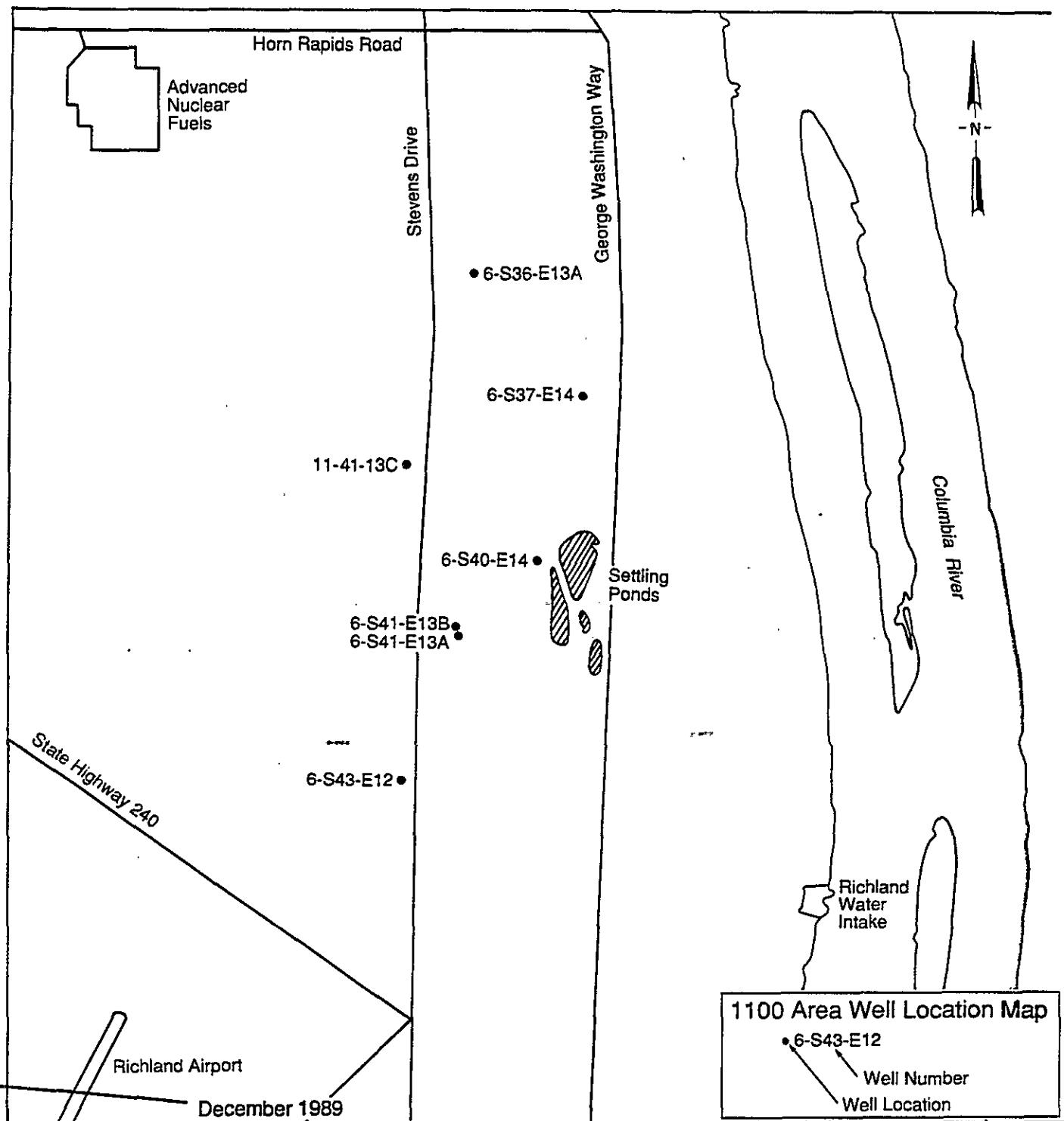


FIGURE A.10. Well Location Map for the 1100 Area

APPENDIX B

MAXIMUM CONTAMINANT LEVELS AND DERIVED CONCENTRATION GUIDES

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APPENDIX B

MAXIMUM CONTAMINANT LEVELS AND DERIVED CONCENTRATION GUIDES

TABLE B.1. Radiological Maximum Contaminant Levels (40 CFR 100-149; WAC 248-54)

Contaminant	Limit
Gross alpha (excluding uranium)	15 pCi/L
Combined radium-226 and radium-228	5 pCi/L
Radium-226 (State of Washington only)	3 pCi/L
Gross beta and gamma radioactivity from manmade radionuclides	Annual average concentration shall not produce an annual dose from man-made radionuclides equivalent to the total body or any internal organ dose greater than 4 mrem/yr. If two or more radionuclides are present, the sum of their annual dose equivalent shall not exceed 4 mrem/yr.  Compliance may be assumed if annual average concentrations for gross beta activity, tritium, and strontium-90 are less than 50 pCi/L, 20,000 pCi/L, and 8 pCi/L, respectively. It should be noted that these "screening levels" are conservatively calculated and not directly equivalent to an annual dose of 4 mrem.

**TABLE B.2.** Annual Average Concentrations that Yield an Annual Dose of 4 mrem to the Indicated Organ Assuming a 2-L Daily Intake [data are taken from EPA (1976)]

<u>Radionuclide</u>	<u>Critical Organ</u>	<u>Concentration, pCi/L</u>
Antimony-125	GI (LLI) (a)	300
Carbon-14	Fat	2,000
Cesium-137	Whole body	200
Cesium-134	GI	20,000
Cobalt-60	GI (LLI)	100
Iodine-129	Thyroid	1
Iodine-131	Thyroid	3
Nickel-63	Bone	50
Niobium-95	GI (LLI)	300
Ruthenium-103	GI (LLI)	200
Ruthenium-106	GI (LLI)	30
Strontium-89	Bone	20
Strontium-89	Bone marrow	80
Strontium-90	Bone marrow	8
Technetium-99	GI (LLI)	900
Tritium	Whole body	20,000
Zinc-65	GI (LLI)	200

(a) GI = gastro-intestinal  
 LLI = lower large intestine.

TABLE B.3. Chemical Maximum Contaminant Levels  
(40 CFR 100-149; WAC 248-54)

<u>Chemical Constituent</u>	<u>Concentration</u>
Arsenic	50 ppb <sup>(a)</sup>
Barium	1 ppm
Cadmium	10 ppb
Carbon tetrachloride	5 ppb
Chloroform	100 ppb
Chromium	50 ppb
Copper	1.3 ppm
Fluorine	2 ppm
Lead	50 ppb
Mercury	2 ppb
Nitrate ion	45 ppm
Selenium	10 ppb
Trans-1,2-Dichloroethene	70 ppb <sup>(b)</sup>
Trichloroethylene	5 ppb
1,1,1-Trichloroethane	200 ppb

(a) ppb = ppm/1000.

(b) Proposed recommended maximum contaminant level.

9 2 1  
9 0 9 0 0 1  
I  
**TABLE B.4. Proposed Derived Concentration Guides<sup>(a)</sup>**

<u>Radionuclide</u>	<u>Concentration, pCi/L</u>
Americium-241	30
Antimony-125	60,000
Carbon-14(CO <sub>2</sub> )	70,000
Cesium-137	3,000
Chromium-51	1,000,000
Cobalt-60	5,000
Iodine-129	500
Iodine-131	3,000
Nickel-63	300,000
Manganese-54	50,000
Plutonium-238	400
Plutonium-239, 240	300
Radium-226	100
Ruthenium-103	50,000
Ruthenium-106	6,000
Strontium-89	20,000
Strontium-90	1,000
Technetium-99	100,000
Tritium	2,000,000
Uranium-234	500
Uranium-235	600
Uranium-236	500
Uranium-238	600
Zinc-65	9,000

(a) Concentrations of radionuclides in water that could be continuously consumed and not exceed an effective dose equivalent of 100 mrem/yr. Consumption is assumed to be 730 L of drinking water per year.

REFERENCES

40 CFR 100-149. U.S. Environmental Protection Agency, "Protection of the Environment." U.S. Code of Federal Regulations.

EPA. 1976. National Interim Primary Drinking Water Regulations.  
EPA-570/9-76-003, Office of Water Supply, Washington, D.C.

WAC 248-54. Washington State Department of Social and Health Services,  
"Public Water Supplies." Washington Administrative Code.

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APPENDIX C

DATA LISTINGS

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**TABLE C.1.** Sampling Summary for All Wells Sampled Between January 1, 1989 and December 31, 1989

9 2 1 2 6 3 9 0 0 8 5

TABLE C.1. (contd)

W ELL NAME	A	A	C	C	C	E	H	L	L	P	P	S	T	F	T	T	S	V	V	A	I	P	R	T	U
L H I O C	O	O	Y T H N F H P E	H	P U	H T	T T A	I				P S E	V O O	L A											
K M T L O N	N	N	A H E H I Y H R F	H L	A H	Q U N D	I C	O	P	P H E M T O L L A P H	G	T N U A S T I													
A O R I L D	D	D	H N Y X T U D E C	I	F	L A	X R I A H C P O M P C P E P M V H L O O L H	B C A 2 I	D R C T	C															
L H U F I F	L	L	L I G A R O R N H E	L I	T I L T	L B O I E P M H E C D E S E V O I O R R P A Z E	M 9	T I	H I																
I I S R M L	L	L	A D L N A R A O L L	A D T D U L O	D I N G R M T E T	B D S T S O L O R G G H H 4 T	T I H D	6 S U 9 9 U	E S																
N U R H F D	D	D	B E Y E T D Z L O D	B E C S H I C	L D S C B T F T F S S T E T L E E G E L A I	I 1 A 4 A W 3 0 M 0 9 M U M O																			
1-H4-17	1	1	1	1	.	1	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	
1-H4-18	4	1	1	.	1	1	4	4	1	1	1	1	4	3	4	1	1	4	4	1	1	3	4	.	
1-K-11	1	.	1	.	1	2	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	2	.	
1-K-19	1	.	1	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	.	
1-K-20	1	.	1	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	.	
1-K-22	1	.	1	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	.	
1-K-27	1	.	1	.	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	.	
1-K-28	1	.	1	.	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	.	
1-K-29	1	.	1	.	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	.	
1-K-30	1	.	1	.	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	2	3	.	
1-H-2	1	3	1	1	2	15	16	1	.	3	2	16	16	1	1	1	1	2	13	2	3	3	3	.	
1-H-3	1	4	1	3	1	24	20	1	.	4	3	24	20	1	1	1	1	6	3	5	1	4	4	.	
1-H-4	1	4	1	2	22	20	20	1	.	2	4	3	20	20	1	1	1	1	6	3	5	1	4	4	
1-H-5	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	1	.	.		
1-H-6	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	1	.	1	1		
1-N-14	1	7	1	1	3	21	20	1	.	2	7	5	21	20	1	1	1	1	6	3	8	1	6	7	
1-H-16	3	1	1	1	13	12	1	.	1	14	1	13	12	1	1	1	1	4	4	4	1	1	4	3	
1-H-17	3	1	1	1	13	12	1	.	1	4	1	13	12	1	1	1	1	3	4	4	1	1	4	3	
1-N-18	1	.	1	4	.	.	1	4	.	.	1	4	.	.	1	1	1	1	1	1	1	1	1	.	
1-H-20	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.		
1-H-21	3	1	1	1	16	12	1	.	1	4	1	16	12	1	1	1	1	4	4	4	1	1	4	3	
1-H-22	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.		
1-H-23	2	1	1	1	3	9	1	.	1	1	3	9	1	1	1	1	1	1	3	3	1	1	2		
1-H-24	2	1	1	1	3	9	1	.	1	1	3	9	1	1	1	1	1	1	3	3	1	1	2		
1-H-25	2	1	1	1	3	9	1	.	1	1	3	9	1	1	1	1	1	1	3	3	1	1	2		
1-H-26	2	1	1	1	3	9	1	.	1	1	3	9	1	1	1	1	1	1	3	3	1	1	2		
1-H-27	.	3	2	2	1	18	13	2	.	1	2	1	1	18	12	2	2	1	2	12	2	3	3		
1-H-28	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.		
1-N-29	.	4	2	2	1	21	13	2	.	1	1	3	1	1	21	12	2	2	1	2	3	3	1		
1-N-31	.	6	2	1	4	17	13	2	.	1	5	3	1	17	13	2	2	1	6	3	5	2	5		
1-H-32	.	5	2	1	3	14	13	2	.	1	1	4	2	1	4	13	2	2	1	6	3	5	2		
1-H-33	.	6	2	3	1	11	12	3	.	1	2	5	2	1	11	12	3	3	2	4	2	5	4		
1-H-36	.	6	3	3	2	17	16	3	.	1	1	4	2	1	17	16	3	3	5	5	5	4	5		
1-H-37	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.			
1-H-39	.	2	.	1	4	4	.	.	1	1	3	4	.	4	4	1	2	1	2	2	1	2	1		
1-H-41	.	5	2	3	1	21	13	2	.	1	4	2	1	21	13	2	2	1	6	3	4	4	4		
1-H-42	.	4	2	4	.	16	13	2	.	1	3	2	1	16	13	2	2	1	6	3	4	4	4		
1-H-47	2	1	1	6	9	1	.	1	3	1	6	9	1	1	1	1	1	1	3	3	1	1	1		
1-H-50	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.	1			
1-H-51	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	1	.	.	1			

9 2 1 2 6 3 9 0 0 9 6

TABLE C.1. (contd)

9 2 1 2 6 3 9 0 0 8 7

TABLE C.1. (contd)

	W	E	L	H	A	M	E	S	T	F	T	A	I	P	R	T	U	
	A A C C	C C C E	H L L L P P	P S	T F									S	V V	A	I	T
	L H I O C	O O Y T H H F H P E	H P U	H T	T T A	J								P S E	V O O	L A	-	-
	K H T L O	N N A H E I L Y H R	F H L	A H	Q U N D	I C	O	P	P	P H E M T O L L A P H			G T N U A S T I	-	R	U		
	A O R I L D	D D N Y X T U D E C I	I F	L A	X R I A H C	P O M	P C P E P M V H L O O L H	_	B C A Z I	D R C T	C							
	L H U F I	F L I G A R O R N H E	L I	T I L	T L B O I E P	M H E	C D E S E V O I O R R P A Z E	H 9	T I	I H I								
	I I S R M L	A D L N A R A O L L	A D T D U L	O D I N G R M	T E T	B D S T S O L O R G G H H 4	T I M D 6	S U 9	9	U E S								
	N U R M F D	B E Y E T D Z L O D	B E C S H I C	L D S C B T F	T F	S S T E T L E E G E L A I	I 1 A 4 A H 3 0 M 0 9 H U M O											
2-E24-7	.	.	.	.	.	1	.	.	.	.	.	.	.	.	1	.	.	
2-E24-8	.	.	.	.	.	1	.	.	.	.	.	.	.	1	1	.	.	
2-E24-11	.	.	.	.	3	.	.	.	.	.	.	.	.	5	3	.	3	
2-E24-12	.	.	.	.	3	.	.	.	.	.	.	.	.	3	3	.	1	
2-E24-13	.	.	.	.	1	.	.	.	.	.	.	.	.	2	1	1	1	
2-E24-16	.	3	12	3	.	1	12	3	3	.	12	12	3	4	4	4	.	34
2-E24-17	.	3	12	3	.	1	12	3	3	.	12	12	3	3	3	3	.	33
2-E24-18	.	2	12	3	.	1	12	3	3	.	12	12	3	3	3	3	.	33
2-E25-2	.	.	.	.	1	.	.	.	.	.	.	.	.	1	1	.	1	
2-E25-3	.	.	.	.	1	.	.	.	.	.	.	.	.	3	1	.	1	
2-E25-6	.	.	.	2	.	.	.	.	.	.	.	.	.	13	4	2	.	
2-E25-9	.	1	1	1	1	5	1	1	1	1	1	1	1	23	5	2	2	
2-E25-11	.	1	1	1	1	1	1	1	1	1	1	1	1	15	6	6	114	
2-E25-13	.	.	.	.	1	.	.	.	.	.	.	.	.	1	.	.	.	
2-E25-17	.	.	.	.	4	.	.	.	.	.	.	.	.	13	4	2	2	
2-E25-18	.	2	1	12	.	1	3	12	.	.	12	12	3	3	3	3	.	31
2-E25-19	.	.	.	.	1	.	.	.	.	.	.	.	.	1	1	.	1	
2-E25-20	.	2	1	12	.	1	1	3	12	.	12	12	3	3	3	3	.	31
2-E25-21	.	1	1	2	2	13	1	1	1	1	13	13	1	4	4	4	1	
2-E25-22	.	1	1	2	2	13	1	1	1	1	13	13	1	4	4	4	1	
2-E25-23	.	1	1	2	2	13	1	1	1	1	13	13	1	4	4	4	1	
2-E25-24	.	1	1	2	2	13	1	1	1	1	13	13	1	4	4	4	1	
2-E25-25	.	2	2	24	1	.	.	5	24	1	1	1	20	20	25	5	14	
2-E25-26	.	4	2	14	17	3	2	2	4	2	17	3	2	5	15	5	15	
2-E25-27	.	1	2	12	.	3	12	.	.	12	12	3	3	3	3	3	.	
2-E25-28	.	5	2	22	17	2	2	.	5	3	2	17	2	5	5	5	5	
2-E25-29P	.	1	1	3	2	21	1	1	1	5	21	1	1	1	20	20	27	
2-E25-30P	.	3	1	12	.	.	.	4	12	.	12	12	4	4	4	4	4	
2-E25-31	.	1	1	2	3	21	1	1	1	4	21	1	1	1	11	11	11	
2-E25-32P	.	4	2	3	3	21	3	2	2	4	6	21	2	2	15	17	17	
2-E25-33	.	3	2	20	1	.	.	5	20	1	1	1	20	20	25	5	14	
2-E25-34	.	5	1	2	2	10	3	1	1	5	3	10	1	1	14	10	10	
2-E25-35	.	5	1	5	10	3	1	1	1	5	4	10	1	5	5	5	5	
2-E25-36	.	2	1	9	3	.	.	1	9	3	3	12	12	3	3	3	3	
2-E25-37	.	1	4	1	.	1	4	1	1	4	4	11	14	4	3	3	.	
2-E25-38	.	1	4	1	.	1	4	1	1	4	4	11	14	4	4	4	.	
2-E26-1	.	.	.	.	.	1	.	.	.	.	.	.	.	1	.	.	1	
2-E26-2	.	.	.	.	3	.	.	.	.	.	.	.	.	3	1	.	3	
2-E26-4	.	.	.	.	3	.	.	.	.	.	.	.	.	3	1	.	3	
2-E26-6	.	.	.	.	1	.	.	.	.	.	.	.	.	1	1	1	1	

9 2 1 2 6 3 9 0 0 8 8

TABLE C.1. (contd)

W E L L N A M E	A A C C	C C C E	H L L L P	P	S	T F		S	V V	A	I	P R	T	R	U
L H I O C	O O Y T H N F H P E	H P U	H T	T T A	I		P S E	V O O	L A		G I N H U A S T I				
K N T L O N	H A H E I I L Y H R	F H L	A H	G U H D	I C O P	P H E N T O L L A P H									
A O R I L D	D H N Y X T U D E C	I F	L A	X R I A H C P O H P C	P E P H V H L O O L H	B C A 2 I	D R C T	C							
L N U F I F	L I G A R O R R H E	L I	T I L T	L B O I E P H E C D E S E	V O I O R R P A 2 E	H 9	T I	H I							
I I S R H M L	A D L H A R A O L L	A D T D U L O	D I N G R H T E T	B D S T S O L O R G G H 4 T	T H D 6 S U 9 9 U	E S									
E N U R H F D	B E Y E T D Z L O D	B E C S H I C	L D S C B T F T	F S S T E T L E E G E L A T	1 A 4 A W 3 0 M 0 9 H U H O										
2-E26-8	.	.	.	2	.	.	.	.	.	.	1	1	.	1	1 2 . . .
2-E27-5	.	.	.	.	.	.	.	.	.	.	1	1	.	.	.
2-E27-7	.	.	.	1	.	.	.	.	.	.	1	1	.	.	.
2-E27-8	. 3 . 2 1 9 12 3	. . . 3	. 9 12 . 1	. . .	12 12 13 . 3 3 3 3 3	. 3	.	3	. 3 . 3 . 3	.	3 3 3 3 3	.	.	.	.
2-E27-9	. 3 . 3 1 9 12 4	. . . 4	. 9 12 . 1	. . .	12 12 14 . 3 4 4 4 4	. 3	.	4	. 4 . 4 . 3	.	4 3 3 3 3	.	.	.	
2-E27-10	. 3 . 2 1 9 12 3	. . . 3	. 9 12 . 1	. . .	12 12 13 . 3 3 3 3 3	. 3	.	3	. 3 . 3 . 3	.	3 3 3 3 3	.	.	.	
2-E28-7	.	.	.	1	.	.	.	.	.	.	12 . 3 . 3 1	. 3 . 1 1 . 3 2	.	.	.
2-E28-9	.	.	.	.	.	.	.	.	.	.	1 1 . 2	.	.	.	2 .
2-E28-12	.	.	.	.	.	.	.	.	.	.	5 . 5	.	.	.	5 .
2-E28-13	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 .
2-E28-16	.	.	.	.	.	.	.	.	.	.	1	.	.	.	1 .
2-E28-17	.	.	.	.	.	.	.	.	.	.	1 1	.	.	.	2 .
2-E28-18	.	.	.	2	.	.	.	.	.	.	2 . 2 . 2	.	.	.	2 . 2 1
2-E28-19	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 .
2-E28-21	.	.	.	3	.	.	.	.	.	.	1 2 . 3 . 3	.	.	.	1 . 3 . 3 1
2-E28-23	.	.	.	1	.	.	.	.	.	.	1 . 1 . 1	.	.	.	1 . 1 . 1 1
2-E28-24	.	.	.	.	.	.	.	.	.	.	1 2 . 1 . 1	. 3 . 1 .	.	.	2 1 1
2-E28-25	.	.	.	.	.	.	.	.	.	.	1 2 . 1 . 1	. 3 . 1 .	.	.	2 1 1
2-E28-26	. 3 . 1 2 14 16 3	. . . 3	. 1 4 16 . 1	. . .	16 16 13 . 3 3 3 3 3	. 3	.	3	. 3 . 3 . 3	.	3 3 3 3 3	.	.	.	
2-E28-27	. 4 . 2 2 9 12 4	. . . 4	. 9 12 . 1	. . .	12 12 14 . 4 4 4 4 4	. 4	.	4	. 4 . 4 . 4	.	4 4 4 4 4	.	.	.	
2-E32-1	.	.	.	1	.	.	.	.	.	.	1	.	.	.	1 .
2-E32-2	. 3 . 1 2 9 12 3	. . . 3	. 9 12 . 1	. . .	12 12 13 . 3 3 3 3 3	. 3	.	3	. 3 . 3 . 3	.	3 3 3 3 3	.	.	.	
2-E32-3	. 1 . 1 4 4 1	. . . 1	. 4 4 . 1	. . .	4 4 1 1 . 1 1 1 1 1	. 1	.	1	. 1 . 1 . 1	.	1 1 1 1 1	.	.	.	
2-E32-4	. 5 . 4 1 21 14 3	. . . 3 5	. 2 1 14 . 3	. . .	20 20 3 5 . 5 5 5 5 5	. 5	.	4	. 5 . 5 . 3	.	5 3 3 6 4	.	.	.	
2-E33-1	1 1 . . . 1 . 1	.	1 1 . 1	.	1 . 1 . 1	.	.		.	.	1 . 1	.	.	.	.
2-E33-3	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 . 1
2-E33-5	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 .
2-E33-7	.	.	.	.	1	.	.	.	.	.	3 . 3 1	.	.	.	3 1 1 1
2-E33-8	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 .
2-E33-9	.	.	.	.	3	.	.	.	.	.	3 . 3	.	.	.	3 . 3 1
2-E33-10	.	.	.	.	1	.	.	.	.	.	1 . 1	.	.	.	1 . 1
2-E33-12	.	.	.	.	2	.	.	.	.	.		.	.	.	2 .
2-E33-18	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 .
2-E33-20	.	.	.	.	3	.	.	.	.	.	3 . 1	.	.	.	2 1 1 1
2-E33-21	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	.
2-E33-24	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 1 .
2-E33-26	.	.	.	.	.	.	.	.	.	.	1 . 1	.	.	.	1 .
2-E33-28	. 4 . 1 3 9 12 4	. . . 4	. 9 12 . 1	. . .	12 12 14 . 4 4 4 4 4	. 4	.	4	. 4 . 4 . 3	.	4 3 3 3 4	.	.	.	
2-E33-29	. 3 . 2 1 9 12 3	. . . 3	. 9 12 . 1	. . .	12 12 13 . 3 3 3 3 3	. 3	.	3	. 3 . 3 . 3	.	3 3 3 3 3	.	.	.	
2-E33-30	. 3 . 1 2 9 12 3	. . . 3	. 9 12 . 1	. . .	12 12 13 . 3 3 3 3 3	. 3	.	3	. 3 . 3 . 3	.	3 3 3 3 3	.	.	.	

9 2 1 2 6 3 9 0 0 3 9

TABLE C.1. (contd)

	A	A	C	C	C	E	H	L	L	P	P	S	T	F		S	V	V	A	I	I	T	R	U
E	L	M	I	O	C	O	O	Y	T	H	N	F	H	P	E	H	P	U	H	T	T	P	R	
L	N	K	M	T	L	O	N	N	A	H	E	I	L	H	R	F	H	L	A	H	O	G	H	
N	A	A	R	I	L	D	D	H	Y	X	T	U	D	E	C	I	F	L	A	X	R	A		
A	H	H	I	I	F	L	I	G	A	R	R	N	H	E	L	I	T	L	B	O	P	H		
H	E	E	S	R	H	M	F	L	A	D	H	A	R	A	O	L	L	D	O	D	P	M		
2-E34-1	1	1	1	1	4	1	1	.	.	1	1	4	1	1	1	1	1	1	1	1	1	1	2	.
2-E34-2	1	4	1	4	.	10	13	4	.	.	1	3	1	10	13	1	1	1	1	13	13	2	4	1
2-E34-3	.	3	.	1	2	9	12	3	.	.	3	.	9	12	.	1	.	12	12	1	3	.	3	3
2-E34-5	.	3	.	1	2	9	12	3	.	.	3	.	9	12	.	1	.	12	12	1	3	.	3	3
2-E34-6	.	3	.	2	1	9	12	3	.	.	3	.	9	12	.	1	.	12	12	1	3	.	3	3
2-W6-2	.	5	1	1	3	13	16	4	.	.	5	.	13	16	.	2	.	16	16	3	5	.	5	5
2-W7-1	.	3	1	2	1	9	12	2	.	.	3	.	9	12	.	1	.	12	12	2	3	.	3	3
2-W7-2	.	3	1	2	1	9	12	2	.	.	3	.	9	12	.	1	.	12	12	2	3	.	3	3
2-W7-3	.	3	1	2	1	9	12	2	.	.	3	.	9	12	.	1	.	12	10	2	3	.	3	3
2-W7-4	.	3	1	1	2	13	12	2	.	.	3	.	13	12	.	1	.	12	16	2	3	.	3	3
2-W7-5	.	3	1	1	2	13	12	2	.	.	3	.	13	12	.	1	.	16	12	2	3	.	3	3
2-W7-6	.	3	1	3	.	9	12	2	.	.	3	.	9	12	.	1	.	12	12	1	3	.	3	3
2-W8-1	.	3	1	2	1	16	12	2	.	.	3	.	16	12	.	1	.	16	12	2	3	.	3	3
2-W9-1	.	3	1	3	.	12	12	2	.	.	3	.	12	12	.	1	.	12	12	2	3	.	3	3
2-W10-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	2	
2-W10-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	2	.	
2-W10-13	.	5	1	1	3	17	16	3	.	.	5	.	17	16	.	2	.	20	16	1	5	.	5	5
2-W10-14	.	4	1	1	2	13	16	3	.	.	4	.	13	16	.	2	.	16	16	2	4	.	4	4
2-W11-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	2	.	
2-W11-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	2	.	
2-W11-15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	2	.	
2-W14-6	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	
2-W15-2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	3	.	
2-W15-3	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	1	.	2	.		
2-W15-6	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	.	1	.		
2-W15-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.		
2-W15-12	1	1	.	1	.	1	.	.	3	.	12	12	.	1	.	1	.	1	.	1	.	3	.	
2-W15-15	.	3	1	2	1	12	12	2	.	.	3	.	12	12	.	1	.	12	12	2	3	.	3	3
2-W15-16	.	3	1	2	1	9	12	2	.	.	3	.	9	12	.	1	.	12	12	2	3	.	3	3
2-W15-17	.	2	1	2	.	2	8	1	.	.	2	.	2	8	.	1	.	8	8	1	2	.	2	2
2-W15-18	.	3	1	2	1	12	12	2	.	.	3	.	12	12	.	1	.	12	12	2	3	.	3	3
2-W18-4	1	1	.	1	.	1	.	.	1	.	1	.	1	.	1	.	1	.	1	.	1	.	1	
2-W18-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	
2-W18-9	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	1	.	2	.		
2-W18-15	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1	.	1	.		
2-W18-17	1	1	.	1	.	1	.	3	.	1	1	.	1	.	1	.	1	.	2	4	.	3	.	
2-W18-20	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	.	2	3	.	2	.	
2-W18-21	.	4	1	3	1	9	12	3	.	.	4	.	9	12	.	1	.	12	12	1	4	.	4	4
2-W18-22	.	3	1	1	2	12	12	2	.	.	3	.	12	12	.	1	.	12	12	2	3	.	3	3
2-W18-23	.	4	1	2	1	16	16	3	.	.	4	.	16	16	.	2	.	16	16	2	4	.	4	4

9 2 1 2 6 3 9 0 0 9 0

TABLE C.1. (contd)

	A	A	C	C	C	E	H	L	L	P	P	S	T	F		S	V	V	A	I	T			
L	L	M	H	I	O	O	O	Y	T	H	N	F	H	P	E	H	P	O	P	P	R	T		
L	N	K	H	T	L	O	N	W	A	H	E	I	L	Y	H	R	F	H	L	G	I	U		
A	A	A	O	R	I	D	D	N	Y	X	T	U	D	E	C	I	O	P	P	H	R	U		
M	E	L	H	U	F	I	F	L	I	G	A	R	O	R	N	H	E	L	I	B	C	C		
E		J	I	S	R	N	L	A	D	L	N	A	R	A	O	L	A	D	T	D	L	O		
2-W18-24	.	.	4	1	1	2	16	16	3	.	.	4	.	16	16	2	.	16	16	2	4	.	4	.
2-W19-2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	.	4
2-W19-3	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	12	.	3	
2-W19-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W19-13	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W19-14	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W19-15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W19-16	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W19-17	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W19-18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	13	.	4	
2-W19-19	.	1	8	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-20	.	1	1	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-21	.	1	1	1	.	1	.	1	.	1	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-23	.	1	1	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-24	.	1	1	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-25	.	1	1	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-26	.	1	1	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W19-27	.	1	1	1	.	1	.	1	.	4	1	1	.	1	.	1	1	1	1	1	1	1	1	1
2-W22-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W22-2	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W22-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W22-18	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W22-22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	
2-W23-1	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	2	.	2	.	
2-W23-2	.	.	.	.	.	.	.	.	.	3	.	.	.	.	.	.	.	.	.	6	.	3	.	
2-W23-3	.	.	.	.	.	.	.	.	.	2	.	.	.	.	.	.	.	.	.	2	.	2	.	
2-W23-4	.	.	.	.	.	.	.	.	.	5	.	.	.	.	.	.	.	.	.	23	.	5	.	
2-W23-7	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	.	6	.	
2-W23-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	23	.	5	.	
2-W23-10	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	2	.	
2-W23-11	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	
2-W27-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	
3-1-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	
3-1-3	1	1	1	.	1	1	.	1	.	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
3-1-5	.	.	.	.	.	.	.	.	.	1	.	.	.	.	.	.	.	.	.	1	.	1	.	
3-1-7	3	2	2	2	1	3	1	2	.	2	2	1	3	1	2	2	2	2	6	6	2	4	2	4
3-1-8	.	2	.	.	2	.	.	2	.	2	.	2	.	2	.	2	.	2	.	2	2	2	2	2
3-1-10	2	1	1	1	1	2	.	1	.	1	1	1	1	5	5	1	2	1	2	2	2	2	1	1
3-1-11	2	1	1	1	1	1	3	.	1	1	1	1	1	5	5	1	13	1	2	2	2	2	1	1
	2	1	1	1	1	1	13	.	1	1	1	1	1	5	5	1	12	1	1	1	1	12	1	1

9 2 1 2 6 3 9 0 0 9 1

TABLE C.1.

W E L L N A M E	A A C C	C C C E	H L L L P	P S	T F			S	V V	A	I	P R	R	T	U
L H I O C	O O Y T H N F H P E	H P U	H T	T T	A	I		P S E	V O O	L A		G	N	A S T I	U
K M T L O	H N A H E I L Y H R	F H L	A H	O U N D	I C	O	P	P H E M T	O L L A P M					D R C T	C
A O R I L	D D H Y X T U D E C	I F	L A	X R	I A H C P O M P C	P E P H V H	L O O L H	B C A 2 I						H I	
L H U F I	F L I G A R O R N H	E L I	T I L T L B	O I E P M H E C	D E S E V O I	O R R P A Z E	M 9	T I	I						
I I S R M	L A D L H A R A O L	L A D T D U L O D I	N G R M T E T	B D S T S O L O	R G G H H 4	T I H D 6	S U 9 9 U	E S							
N U R H F	D B E Y E T D Z L O	D B E C S M I C L D	S C B T F T F S S T E T L E E	G E L A I 1 A 4 A W 3 0 H 0 9 M	U M O										
3-1-12	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1	1 2 1 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . . 1	2 . .						
3-1-13	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1	1 2 1 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . . 2							
3-1-14	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1	1 2 1 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . . 2							
3-1-15	3 2 2 2 1	1 . 2 . . .	2 1 .	1 . 2 2 1 2 2 5 5 1	3 1 3 3 3 3 3 2 1 3 2 2 2 2 2	3 2 . . 3 . 3 . . .	3 . . 3								3 . .
3-1-16A	2 1 1 1 1	3 . 1 . . .	1 1 .	3 2 1 3 1 1 1 7 7 1	4 1 2 4 4 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . . 2								3 . .
3-1-16B	2 1 1 1 1	3 . 1 . . .	1 1 .	3 2 1 3 1 1 1 7 7 1	4 1 2 4 4 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . . 2								3 . .
3-1-16C	1 1 1 1 .	2 . 1 . . .	1 .	2 2 1 3 1 1 1 6 6 1	3 1 1 3 3 1 1 1 1 1 1 1 1 1 1	1 1 . . 1 . 1 . . .	1 . . 1								2 . .
3-1-17A	2 1 1 1 1	2 9 . 1 . .	3 . 1 1 .	2 9 . 1 1 1 1 1 5 5 1	2 6 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 5 1 . . 5 . 5 . 3 . .	2 . . 2								3 2 6 .
3-1-17B	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 2 . 2 2								
3-1-17C	1 1 1 1 .	1 . 1 . . .	1 .	1 . 1 1 1 1 1 4 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 . . 1 . 1 . . .	1 . . 1								1 1 . .
3-1-18A	2 1 1 1 1	1 3 . 1 . .	1 1 .	1 3 . 1 1 1 1 1 5 5 1	1 3 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1 1	1 2 1 . . 2 . 2 . . .	2 . . 2								1 1 3 .
3-1-18B	1 1 1 1 .	1 . 1 . . .	1 .	1 . 1 1 1 1 1 4 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 . . 1 . 1 . . .	1 . . 1								1 . .
3-1-19	.	6 . . . .	6 . . . .	7 . . . .	.	5 . . . .	.								6 . .
3-2-1	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . 2 1								
3-2-2	1 1 1 1 .	1 . 1 . . .	1 .	1 . 1 1 1 1 1 4 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 . . 1 . 1 . . .	1 . . 1								1 . .
3-3-7	3 2 2 . 3	2 . 2 . . .	2 1 .	2 . 2 2 1 2 2 2 2 1	3 1 3 3 3 3 3 2 1 3 2 2 2 2 2	3 2 . . 3 . 3 . . .	3 . . 3								3 . 1 1 3 .
3-3-9	2 1 1 1 1	2 . 1 . . .	1 . 1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 1 1 1								2 . .
3-3-10	2 1 1 2 .	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 2 . 2 2								
3-4-1	2 1 1 . 2	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 2 2 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . . 1								2 . .
3-4-7	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . 1 1 2 .								
3-4-11	2 1 1 1 1	2 . 1 . . .	1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . 1 2 .								
3-6-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1 . .
3-8-1	2 1 1 1 1	2 . 1 . . 2 . 1 1 .	2 . 1 1 1 1 1 5 5 1	2 1 2 2 2 2 2 2 1 1 2 1 1 1 1 1	2 1 . . 2 . 2 . . .	2 . 2 2 2									
3-8-2	1 1 1 1 .	1 . 1 . . .	1 .	1 . 1 1 1 1 1 4 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 . . 1 . 1 . . .	1 . . 1								1 . .
3-8-3	1 1 1 1 .	1 . 1 . . .	1 .	1 . 1 1 1 1 1 4 4 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 . . 1 . 1 . . .	1 . . 1								1 . 1 1 .
4-S1-7C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
4-S1-8A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
4-S1-8B	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
4-S1-8C	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-S43-E12	3 1 1 . 1	3 . 1 2 . .	1 .	3 3 1 3 . 1 3 3 3 1	3 1 3 1 3 1 3 3 1 3 1 1 3 1 1	3 1 . . 3 . 3 . . .	3 . . 3								
6-S41-E13A	4 1 1 1 .	6 . 1 2 . .	1 . 1	6 4 1 4 . 1 3 4 3 1	7 1 3 1 4 2 4 3 1 3 1 1 3 1 1	4 1 . . 3 . 3 . . .	3 . . 3								
6-S41-E13B	3 1 1 . 1	4 . 1 2 . .	1 .	5 3 1 3 . 1 3 3 3 1	5 1 3 1 3 2 4 3 1 3 1 1 3 1 1	3 1 . . 3 . 3 . . .	3 . . 3								
6-S40-E14	3 1 1 1 .	5 . 1 2 . .	1 . 1	5 3 1 3 . 1 3 3 3 1	5 1 3 1 3 2 4 3 1 3 1 1 3 1 1	3 1 . . 3 . 3 . . .	3 . . 3								
6-S37-E14	3 2 2 . 2	3 . 2 2 . .	2 .	3 3 2 4 . 2 4 3 3 1	4 2 4 2 4 2 4 4 1 4 2 2 4 2 2	4 2 . . 4 . 4 . . .	4 . . 4								
6-S36-E13A	2 . . . .	2 . . . .	2 .	2 2 . 2 . . 2 .	2 . 2 . 2 . 2 . 1 . . .	2 . . . .	2 . . . .								
6-S32-E13A	2 . . . .	2 . . . .	1 .	2 2 . 2 . . 2 .	2 . 2 . 2 . 2 . 1 . . .	2 . . . .	2 . . . .								
6-S32-E13B	2 . . . .	2 . . . .	1 .	2 2 . 2 . . 2 .	2 . 2 . 2 . 2 . 1 . . .	2 . . . .	2 . . . .								
6-S31-E13	2 . . . .	2 . . . .	2 .	2 2 . 2 . . 2 .	2 . 2 . 2 . 2 . 1 . . .	2 . . . .	2 . . . .								
6-S31-1P	.	.	.	1 . . . .	.	.	.	.	.	.	.	.	.	1 . 1 . . .	
6-S30-E15A	.	.	.	2 . . . .	.	.	.	.	.	.	.	.	.	1 2 2 . . .	

9 2 1 2 6 3 9 0 0 9 2

TABLE C.1. (contd)

	W	A A C C	C C C E	H L L L P P	P S	T F	S	V V A	I	P R	R	T	U
L	L	L M I O C	O O Y T H N F H P E	H P U	H T	T T A	I	P S E	V O O	L A	G	N U A S T I	U
K	H	K H T L O N N A H E I L Y H R F H L	A H	O U N D	I C	O P	P H E N T O L L A P H	M					
A	A	A O R I L D D N Y X T U D E C I	F	L A	X R I A H C P O H P C P E P H V H L O O L H	B C A Z I	D R C T	C					
H	E	L H U F I F L I G A R O R R H E	E	L I	T I L T L B O I E P H M H E C D E S E V O I O R R P A Z E	H 9	T I	I	H I				
I	I	I I S R H L A D L H A R A O L L	A D T D U L O	O D I N G R M H T E T B D S T S O L O R G G H H 4 T	T I M D 6 S U 9 9 U	E S							
R	E	H U R H F D B E Y E T D Z L O D	B E C S H I C	C L D S C B T F T F S S T E T L E E G E L A I	I 1 A 4 A W 3 0 M 0 9 H U H O								
6-S29-E12	2	.	2	.	2	2	2	2	2	2	1	2	2
6-S28-E0	.	.	.	3	.	.	.	.	1	2	3	3	2
6-S27-E14	.	.	.	3	.	.	.	.	3	.	3	3	.
6-S24-19	.	.	.	1	.	.	.	.	.	.	1	1	.
6-S19-E13	.	.	.	3	.	.	.	.	2	2	.	2	.
6-S19-11	.	.	.	3	.	.	.	.	1	2	3	3	.
6-S18-51	.	.	.	1	.	.	.	.	1	1	.	1	.
6-S14-20A	.	.	.	1	.	.	.	.	1	.	1	1	.
6-S12-3	.	.	.	2	.	.	.	.	2	2	1	2	1
6-S12-29	.	.	.	1	.	.	.	.	1	1	.	1	.
6-S11-E12A	.	.	.	1	.	.	.	.	.	.	.	1	.
6-S11-E12AP	.	.	.	1	.	.	.	.	1	1	.	1	.
6-S8-19	.	.	.	.	.	.	.	.	2	2	1	2	.
6-S7-34	.	.	.	1	.	.	.	.	.	.	.	1	.
6-S6-E14A	.	.	.	1	.	.	.	.	1	.	.	1	.
6-S6-E4B	.	.	.	2	.	.	.	.	2	2	2	2	.
6-S6-E4D	.	.	.	2	.	.	.	.	2	2	2	2	.
6-S3-E12	.	.	.	2	.	.	.	.	2	2	1	2	.
6-S3-25	.	.	.	1	.	.	.	.	1	1	1	1	.
6-1-18	.	.	.	2	.	.	.	.	1	1	.	2	.
6-2-3	.	.	.	2	.	.	.	.	2	2	1	2	.
6-2-7	.	.	.	1	.	.	.	.	.	.	.	1	.
6-2-33A	.	.	.	2	.	.	.	.	2	2	1	2	.
6-3-45	.	.	.	1	.	.	.	.	1	1	1	1	1
6-8-17	.	.	.	2	.	.	.	.	2	2	1	2	.
6-8-25	.	.	.	2	.	.	.	.	2	2	1	2	.
6-8-32	.	.	.	2	.	.	.	.	2	2	1	2	.
6-10-E12	.	.	.	2	.	.	.	.	2	2	1	2	.
6-10-54A	.	.	.	1	.	.	.	.	1	1	.	1	.
6-13-64	.	.	.	1	.	.	.	.	1	1	1	1	.
6-14-38	.	.	.	2	.	.	.	.	2	2	1	2	.
6-14-47	.	.	.	1	.	.	.	.	1	1	.	1	.
6-15-158	.	.	.	1	.	.	.	.	1	1	1	1	.
6-15-26	.	.	.	.	.	.	.	.	.	.	1	.	
6-17-5	.	.	.	3	.	.	.	.	1	2	3	2	3
6-17-47	.	.	.	1	.	.	.	.	.	1	.	1	.
6-17-70	.	.	.	1	.	.	.	.	.	.	.	1	.
6-19-43	.	.	.	1	.	.	.	.	.	.	.	1	.
6-19-58	.	.	.	1	.	.	.	.	.	.	.	1	.
6-19-88	.	.	.	1	.	.	.	.	1	1	.	1	.

9 2 1 2 6 3 9 0 0 9 3

TABLE C.1. (contd)

	A	A	C	C	C	E	H	L	L	P	P	S	T	F		S	V	V	A	I	T	R	U	
W	L	M	I	O	C	O	O	Y	T	H	N	F	H	P	E	H	P	U	H	T	T	A		
E	L	N	K	H	T	L	O	N	N	A	H	E	I	L	Y	H	R	F	H	L	A	H	O	
L	N	A	A	R	I	D	D	N	Y	X	T	U	D	E	C	I	F	L	A	X	R	A	T	
N	A	M	A	R	R	I	I	F	L	I	G	A	R	O	R	N	H	E	L	T	I	R	C	
A	M	E	I	H	U	F	I	F	L	I	G	A	R	O	R	N	H	E	L	T	B	H	T	
M	E	I	S	R	H	F	I	F	L	I	G	A	R	O	R	N	H	E	L	T	D	S	U	
E	H	U	R	M	F	D	B	E	Y	E	T	D	Z	L	O	D	B	E	C	S	H	M	O	
6-20-E12	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	1	.	22
6-20-E12P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-20-E5A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	2	.	2	
6-20-E5P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-20-E5Q	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-20-E5R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-20-20	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	1	.	22	
6-20-39	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-20-82	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	1	
6-21-6	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	2	.	2	
6-22-70	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	.	2	.	2	
6-23-34	5	6	.	4	2	21	14	.	.	3	.	21	14	.	2	.	15	12	17	3	6	5	3	3
6-24-1P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	6	1	2	.	3	
6-24-1Q	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-24-1R	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-24-1S	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-24-1T	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	1	
6-24-33	3	3	.	2	1	13	12	.	.	13	12	.	.	.	.	12	12	13	3	3	3	3	3	
6-24-34A	4	4	.	3	.	13	12	.	.	4	.	13	12	.	.	12	12	14	3	4	3	4	3	
6-24-34B	4	4	.	3	1	17	13	.	.	3	.	17	13	.	1	.	13	12	14	3	4	3	3	2
6-24-34C	5	6	.	3	2	21	14	.	.	4	.	21	14	.	1	.	14	12	17	3	6	6	4	4
6-24-35	4	6	.	4	1	21	14	.	.	4	.	21	14	.	1	.	14	12	17	3	6	6	4	4
6-24-46	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	1	.	1	.	
6-25-33A	.	.	.	.	.	12	12	.	.	.	.	12	12	.	.	12	12	23	.	.	.	.	3	
6-25-34A	.	.	.	.	.	12	12	.	.	.	.	12	12	.	.	12	12	22	.	.	.	.	2	
6-25-34B	.	.	.	.	.	8	12	.	.	.	.	8	12	.	.	12	12	33	.	.	.	.	3	
6-25-34C	4	5	.	4	1	21	14	.	.	3	.	21	14	.	1	.	14	12	15	3	5	5	3	3
6-25-55	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	5	1	2	.	3	
6-25-70	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	.	2	
6-26-15A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	21	.	
6-26-33	.	.	.	.	.	12	12	.	.	.	.	12	12	.	.	12	12	22	.	.	.	.	2	
6-26-34	.	.	.	.	.	12	12	.	.	.	.	12	12	.	.	12	12	22	.	.	.	.	2	
6-26-35A	.	.	.	.	.	12	12	.	.	.	.	12	12	.	.	12	12	22	.	.	.	.	2	
6-26-35C	.	.	.	.	.	12	12	.	.	.	.	12	12	.	.	12	12	22	.	.	.	.	2	
6-26-89	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	1	.	
6-27-8	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	1	.	
6-28-40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	1	.	
6-28-40P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	11	
6-28-52A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	1	.	1	.	1	
6-29-4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	2	2	.	1	.	

9 2 1 2 6 3 9 0 0 9 4

TABLE C.1. (Contd)

	A	A	C	C	C	E	H	I	L	L	P	P	S	T	F		S	V	V	A	I	I	T	R	U
W	L	H	I	O	C	O	Y	T	H	N	F	H	P	E	H	P	H	T	V	O	L	A	P	R	T
E	L	L	K	H	T	L	O	N	H	A	H	E	I	L	Y	H	R	A	U	D	A	G	H	U	
L	N	N	A	D	D	N	Y	X	T	U	D	E	C	I	F	F	A	U	H	U	A	A	R	C	
N	A	A	A	O	R	I	R	I	L	D	N	Y	X	T	U	D	E	C	P	O	H	P	R	C	
A	M	M	M	L	N	U	F	I	F	L	I	G	A	R	O	R	N	H	E	C	P	E	H	T	
H	E	E	E	I	I	I	S	R	H	A	D	L	N	A	R	A	O	L	D	I	G	R	H	T	
6-29-78	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-31-31	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-31-31P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-32-22	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-32-43	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-32-62	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-32-70B	1	.	.	1	.	2	.	.	1	1	.	1	.	1	.	.	.	.	1	2	.	1	1	2	
6-32-72	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-32-77	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-33-42	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-33-56	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-34-39A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-34-41B	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-34-42	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-34-51	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-35-9	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-35-66	1	.	.	1	.	1	.	1	1	.	1	.	1	.	1	.	1	1	1	1	1	1	1	1	
6-35-70	1	.	.	1	.	2	.	1	1	1	.	1	1	.	1	.	2	2	2	2	2	2	2	2	
6-35-78A	1	.	.	1	.	2	.	1	1	1	.	1	1	.	1	.	1	1	2	2	2	2	2	2	
6-36-46P	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-36-46Q	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-36-61A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-36-61B	1	.	.	1	.	1	.	1	1	1	.	1	1	.	1	.	1	1	1	1	1	1	1	1	
6-36-93	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-37-E4	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-37-43	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-37-82A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-38-15	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-38-65	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-38-70	1	.	.	1	.	1	.	1	1	1	.	1	1	.	1	.	2	3	5	1	1	1	5	1	
6-39-0	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-39-39	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-39-79	1	.	.	1	.	1	.	1	1	1	.	1	1	.	1	.	3	.	.	1	.	1	1	2	
6-40-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-40-33A	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-40-39	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-40-62	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-41-1	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-41-23	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	
6-41-40	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	.	

9 2 1 2 6 3 9 0 0 9 5

TABLE C.1. (contd)

9 2 1 2 6 3 9 0 0 9 6

TABLE C.1. (contd)

	W E L L H A M E	A A C C    C C C E    H L L L P P    S    T F		S    V V    A    I	P R    R    T	
	L H I O C O O Y T H N F H P E H P U	H T    T T A	I	P S E    V O O    L A	G T N U A S T I	U
	K M T L O N N A H E I L Y H R F H L	A H    O U N D	I C    O    P	P H E M T O L L A P H	B C A Z I	D R C T
	A O R I L D D H Y X T U D E C I	F	L A    X R I A H C P O M P C P E P M V H L O O L H			C
	L N U F I F L I G A R O R N H E L I	T I L T L B O I E P H H E C D E S E V O I O R R P A Z E	M 9    T I			H I
	T I S R M H A D L H A R A O L L A D	T D U L O D I N G R M T E T B D S T S O L O R G G H H 4	T 1 H D 6	S U 9 9 U	E S	
	N U R H F D B E Y E T D Z L O D B E C S H I C L D S C B T F T F S S T E T L E E G E L A I 1 A 4 A W 3 0 H 0 9 H U M O					
6-50-48B	.	2		2    2	1	2 1 2
6-50-53	1 . . . . 1 . 6 . . . . 1 . . . . i i . . . . 1 . . . . 1 . . . . 1 . . . .			. 1 . 1 1 1	. . . . 1 1 1	. . . .
6-50-85	.	2		2    2	2	2 . . . .
6-51-46	.	2		2    2	1	2 1 2
6-51-63	.	2		2    2	1	2 2 . . .
6-51-75	.	2		2    2	2	2 . . . .
6-52-19	.	2		2    2	1	2 . . . .
6-52-46A	.	2		2    2	1	2 1 2
6-52-48	.	2		2    2	1	2 1 2
6-53-47A	.			2 2 . 4 . 4	4	4 . . . .
6-53-47B	.			1 1 . 2 . 2	2	2 . . . .
6-53-48A	.			1 1 . 2 . 2	2	2 . . . .
6-53-48B	.			1 1 . 2 . 2	2	2 . . . .
6-53-50	.	1		1 . 1 . 1	1 1 1	. . . .
6-53-55A	.			1 1 . 2 . 2	2	. . . .
6-53-103	.	1		1 . 1 . 1	1 1	. . . .
6-54-34	.	1		1 . 1 .	1	. . . .
6-54-45A	.	2		2 . 2	2	. . . .
6-54-48	.			1 1 . 2 . 2	2	. . . .
6-54-49	.			1 1 . 2	2	. . . .
6-54-57	.	2		2 . 2 . 1	2 1 2	. . . .
6-55-40	.	1				1 . . . .
6-55-44	.	1				1 . . . .
6-55-50A	.	2		2 . 2 1	2 1 2 2	. . . .
6-55-50C	.	1		1 1 . 2 . 1 1	2 . 1 1	. . . .
6-55-50D	.	1		1 2 . 3 . 1	3 . 1 1	. . . .
6-55-70	.	1		1	. . . .	1 1 . . .
6-55-76	.	1				. . . .
6-55-89	.	1			1 . 1	. 1 1 . .
6-56-43	.	2		2 . 2 . 1	2	. . . .
6-56-53	.	2		2 . 2 . 1	2 1 2	. . . .
6-57-29A	.	1		1 . 1	. . . .	1 . . . .
6-59-58	.	1		1 . 2 . 1	2 1 1 1	. . . .
6-59-80B	.	2				. . . .
6-60-57	.	1		1 . 1	. . . .	1 1 . . .
6-60-60	.	1		1 . 1 1	. . . .	1 1 1 1 . .
6-61-37	.	1		1 . 1	. . . .	1 . . . .
6-61-41	.	1		1 . 1	. . . .	1 . . . .
6-61-62	.	1		1 . 1 1	. . . .	1 1 1 1 . .
6-61-66	.	1		1 . 1 1	. . . .	1 1 1 1 . .

9 2 1 2 6 3 9 0 0 9 7

TABLE C.1. (contd)

W E L L N A M E	A A C C	C C C E	H H L L	P P	S S	T F		S S	V V	A A	I I	P R	T T	R R	U U
	L M I O C	O O Y T H H F H P E	H P U	H T	T T A	I I		P S E	V V O	L A		G T	N U A S T I		
	K M T L O	N N A H E I L Y H R	F H L	A H	O U N D	I C O P	P H E M T O L L A P H M								
	A O R I L	D D N Y X T U D E C	I I F	L A	X R I A H C P O M P C P E P M V H L O O L H							D R C T	C		
	L N U F I	F L I G A R O R N H	E L I	T I L T	L B O I E P H M E C D E S E V O I O R R P A Z E						M 9	I I	H I		
	I I S R H	L A D L H A R A O L	L A D T D U L O D I N G R M T E T B D S T S O L O R G G H	H 4	T T M D	6	S U 9 9	U	E S						
	H U R H F	D B E Y E T D Z L O	D B E C S M I C	L D S C B T F T F S S T E T L E E G E L A I	I 1 A 4	A W 3 0	H 0 9	M U H O							
6-62-31	.	.	.	.	1	.	.	.	.	.	.	.	.	.	.
6-63-5A	.	.	.	2	.	.	.	.	.	.	2	.	.	2	.
6-63-55	.	.	.	2	.	.	.	.	.	.	2	.	.	2	.
6-63-58	.	.	.	2	.	.	.	.	.	.	1	3	2	1	2
6-63-90	.	.	.	1	.	.	.	.	.	.	1	1	.	1	.
6-64-27	.	.	.	1	.	.	.	.	.	.	1	1	1	1	.
6-64-62	.	.	.	1	.	.	.	.	.	.	1	1	1	1	1
6-65-23	.	.	.	1	.	.	.	.	.	.	2	.	1	.	1
6-65-50	.	.	.	2	.	.	.	.	.	.	2	.	1	.	2
6-65-59A	.	.	.	1	.	.	.	.	.	.	1	1	1	1	1
6-65-72	.	.	.	2	.	.	.	.	.	.	2	.	1	.	2
6-65-83	1	.	1	2	1	1	1	1	1	1	2	2	.	2	.
6-66-23	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.
6-66-38	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.
6-66-39	.	.	.	2	.	.	.	.	.	.	.	.	.	.	.
6-66-58	.	.	.	2	.	.	.	.	.	.	2	2	1	.	2
6-66-64	.	.	.	2	.	.	.	.	.	.	2	2	1	.	2
6-66-103	.	.	.	1	.	.	.	.	.	.	1	1	1	.	1
6-67-51	.	.	.	2	.	.	.	.	.	.	.	.	.	.	2
6-67-86	1	.	1	2	1	1	1	1	1	1	2	2	.	2	.
6-67-98	.	.	.	2	.	.	.	.	.	.	2	2	.	2	.
6-68-105	.	.	.	1	.	.	.	.	.	.	.	.	.	.	1
6-69-38	.	.	.	2	.	.	.	.	.	.	2	2	.	2	.
6-70-68	.	.	.	2	.	.	.	.	.	.	2	2	1	.	2
6-71-30	.	.	.	2	.	.	.	.	.	.	2	2	.	2	.
6-71-52	1	.	1	2	1	1	1	1	1	1	2	2	1	.	2
6-71-77	.	.	.	2	.	.	.	.	.	.	2	2	1	.	2
6-72-73	.	.	.	1	.	.	.	.	.	.	1	1	1	.	1
6-72-88	.	.	.	2	.	.	.	.	.	.	2	2	.	2	.
6-72-92	.	.	.	1	.	.	.	.	.	.	1	1	.	1	.
6-73-61	1	.	1	1	1	1	1	1	1	1	2	2	1	.	1
6-74-44	.	.	.	2	.	.	.	.	.	.	2	2	.	2	.
6-77-36	1	.	1	3	1	1	1	1	1	1	3	.	.	1	.
6-77-54	.	.	.	2	.	.	.	.	.	.	2	2	.	2	.
6-78-62	1	.	1	1	1	1	1	1	1	1	.	.	.	.	.
6-80-43P	.	.	.	1	.	.	.	.	.	.	1	1	.	1	.
6-80-43Q	.	.	.	1	.	.	.	.	.	.	1	1	.	1	.
6-80-43R	.	.	.	1	.	.	.	.	.	.	1	1	.	1	.
6-80-43S	.	.	.	1	.	.	.	.	.	.	1	1	.	1	.
6-81-58	1	2	2	1	2	1	3	9	2	1	1	1	1	3	3

9 2 1 2 6 3 9 0 0 9 8

TABLE C.1. (contd)

WELLNAME	AACC	CCCE	#LLLPP	P	S	TF	.		S	VV	A	I	T
	LHLOC	OOYTHNFHPE	H	PU	HT	TTA	I		PSE	VOO	LA	PR	R
	KHTLO	NNAHEILYHR	F	HL	AH	OUND	IC	O P	PHE	MTO	LAPH	GINUASTI	U
	AORIL	DDNYXTUDEC	I	F	LA	XRTIAHCPOHPCPEPMVHLOOLH	_BCA21	_DRCT	C				
	LNUF!	FLIGARORNHE	ELI	TIL	TLBOIEPMHECD	DESEVOIORRPAZE	H9	TI	I	H			
	IISRM	LADLHARAOLL	ADTDUL	ODINGRHTET	BDS	TSOLORGHH4	T	HD	6SU99U	E			
	HURMF	DBEYETDZLOD	BECSHI	CLDSCB8TFTFSSTET	LEEGELAI	1A4AW30M09MUHO							

6-83-47	1 . . . . .	1 . . . . .	1	1 . . . .	1	1 . . . . .							1 1 1 . . . . .
6-84-35AO	.	.	1	.	.	.	.	.	.	.	.	.	1 . . . . .
6-87-55	.	.	2	.	.	.	.	.	.	.	.	2 . 2 . . . . .	
6-89-35	.	.	2	.	.	.	.	.	.	.	.	2 . 2 . . . . .	
6-90-45	.	.	2	.	.	.	.	.	.	.	.	2 . 2 . . . . .	
6-96-49	1 . . . . .	1 . . . . .	2 . . . . .	1	1 . . . . .	1	1 . . . . .	1	2 . 2	2 . 1 . . . . .	2 2 . . . . .		
6-97-43	1 . . . . .	1 . . . . .	1	1 . . . . .	1	1 . . . . .	1	1 . . . . .	1	1 . 1 . . . . .	1 . . . . .		
6-97-51A	.	.	2	.	.	.	.	.	.	2 . 2	2 . 1 . . . . .	2 2 . . . . .	
6-101-48B	.	.	2	.	.	.	.	.	.	2 . 2	.	2 1 2 . . . . .	
11-41-13C	1 . . . . .	1 . . . . .	1	1 . . . . .	1	1 . . . . .	1	1 . . . . .	1	1 . . . . .			

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9 2 1 2 6 3 9 0 1 0 0

TABLE C.2. Analytical Results for Key Inorganic Constituents

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
1-B3-1	13FEB89		48,400	49,400	8,100	<500	.	.	18
1-B4-1	13FEB89		13,900	39,800	9,000	<500	.	.	<10
1-B4-4	13FEB89		12,900	39,400	8,000	<500	.	.	<10
1-B9-1	13FEB89		24,600	65,200	14,300	<500	.	.	14
1-D2-5	10FEB89		72,000	165,000	23,600	<500	.	.	169
1-D5-12	10FEB89		122,000	281,000	38,700	<500	.	.	692
1-D8-3	10FEB89		69,500	67,100	19,100	<500	.	.	120
1-F5-1	09FEB89		2,200	13,600	1,000	<500	.	.	<10
1-F5-4	09FEB89		73,300	106,000	37,200	<500	.	.	13
1-F5-6	09FEB89		<500	13,700	7,200	<500	.	.	<10
1-F8-1	09FEB89		151,000	60,100	14,100	<500	.	.	<10
1-H3-1	24MAY89		23,300	40,400	8,400	<500	.	<10	15
1-H3-2A	06JAN89 26MAY89 02AUG89 11OCT89		29,000 35,300 26,300 18,100	53,900 72,200 51,000 38,000	8,400 10,500 8,000 6,900	<500 <500 <500 <500	.	<10	67 94 75 39
1-H3-2B	26MAY89 26MAY89	1	28,200 28,100	59,000 59,400	8,700 8,800	<500 <500	.	<10	61 70
1-H3-2C	01JUN89		4,600	37,800	3,700	<500	.	<10	12
1-H4-3	09JAN89 25MAY89 03AUG89 29SEP89 11OCT89 11OCT89 28NOV89 27DEC89		191,000 524,000 474,000 242,000 172,000 176,000 127,000 158,000	83,700 98,000 108,000 92,000 88,000 89,000 80,900 84,100	10,000 9,000 11,000 10,000 10,000 11,000 9,700 10,100	<500 1,100 1,100 600 600 600 <500 <500	.	<10	159 146 172 208 117 123 129 137

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9 2 1 2 6 3 9 0 1 0 1

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
1-H4-4	09JAN89	1	26,300	35,400	4,200	<500	.	.	70
	25MAY89		10,400	20,600	2,000	<500	.	<10	18
	03AUG89		392,000	78,000	8,000	900	.	.	198
	11OCT89		368,000	78,000	8,000	600	.	.	164
	28NOV89		253,000	70,700	7,600	<500	.	.	137
	27DEC89		185,000	61,200	6,900	<500	.	.	119
1-H4-5	06JAN89	1	39,500	70,200	8,600	<500	.	.	129
	06JAN89		40,600	71,800	8,500	<500	.	.	114
	20JUN89		44,800	74,100	6,600	<500	.	<10	88
	11OCT89		39,000	74,000	8,000	<500	.	.	81
1-H4-6	09JAN89	1	39,100	88,900	12,300	<500	.	.	78
	24MAY89		36,700	90,000	12,000	<500	.	<10	89
	04AUG89		38,000	89,000	12,000	<500	.	.	101
	04AUG89		38,000	89,000	12,500	<500	.	.	95
	11OCT89		38,000	87,000	13,000	<500	.	.	83
1-H4-7	06JUN89	1	56,800	104,000	9,600	<500	.	<10	77
	18OCT89		36,000	76,000	11,000	<500	.	.	109
	30NOV89		35,300	73,700	13,100	<500	.	.	114
1-H4-8	12MAY89		39,400	91,200	9,900	<500	.	<10	63
1-H4-9	06JAN89	1	58,000	80,100	9,900	<500	.	.	110
	15MAY89		69,300	72,000	10,200	<500	.	<10	49
	27DEC89		68,500	86,200	11,800	<500	.	.	88
1-H4-10	18MAY89		12,700	19,000	1,800	<500	.	<10	17
1-H4-11	12MAY89		32,000	40,600	5,200	<500	.	<10	132
1-H4-12A	06JAN89	1	29,100	48,100	5,900	<500	.	.	94
	23MAY89		30,200	33,000	3,000	<500	.	<10	31
	02AUG89		82,000	70,000	9,000	<500	.	.	98
	11OCT89		59,000	61,000	8,800	<500	.	.	63
1-H4-12B	06JAN89	1	39,000	59,300	7,200	<500	.	.	128
	22MAY89		27,400	44,000	6,700	<500	.	<10	81
	02AUG89		49,000	58,000	9,000	<500	.	.	90
1-H4-12C	06JAN89	1	6,400	24,200	2,500	<500	.	.	284
	22MAY89		6,400	24,700	2,500	<500	.	<10	318
	02AUG89		6,800	24,400	2,500	<500	.	.	349
	11OCT89		6,300	23,900	2,700	<500	.	.	295

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9 2 1 2 6 3 9 0 1 0 2

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
1-H4-13	23MAY89 23MAY89	1	15,800 16,200	31,900 32,100	3,800 3,800	<500 <500	.	<10 .	56 48
1-H4-14	18MAY89 17OCT89		18,600 21,700	40,300 44,000	5,100 5,800	<500 <500	.	<10 .	358 420
1-H4-15A	25MAY89		41,400	49,200	4,800	<500	.	<10	47
1-H4-15B	25MAY89		22,500	48,000	5,800	<500	.	<10	81
1-H4-16	23MAY89		13,900	30,900	5,000	<500	.	<10	14
1-H4-17	23MAY89		51,200	93,600	9,800	<500	.	<10	97
1-H4-18	06JAN89 23MAY89 02AUG89 11OCT89		27,600 31,500 27,000 23,500	48,600 47,600 44,000 43,000	6,900 5,700 5,900 6,200	<500 <500 <500 <500	.	.	135 162 201 179
1-K-11	16FEB89		38,000	42,600	6,000	<500	.	.	20
1-K-19	16FEB89		51,300	57,900	7,000	<500	.	.	112
1-K-20	16FEB89		19,000	51,800	4,400	<500	.	.	160
1-K-22	16FEB89		4,400	42,200	3,900	<500	.	.	98
1-K-27	14FEB89		3,000	18,800	3,100	<500	.	.	<10
1-K-28	14FEB89		22,600	27,300	14,900	<500	.	.	<10
1-K-29	14FEB89		9,100	22,000	13,400	<500	.	.	<10
1-K-30	14FEB89		43,400	30,500	3,600	<500	.	.	<10
1-N-2	09MAR89 26JUL89 15AUG89 21DEC89		30,700 22,000 20,100 9,300	9,700 13,100 14,200 13,400	900 1,300 1,700 1,400	<500 <500 <500 <500	.	<10 <10 <10 <10	<10 <10 <10 <10
1-N-3	09MAR89 26JUL89 15AUG89 29SEP89 08NOV89		23,400 13,500 10,400 7,500 7,100	180,000 34,900 31,000 26,000 24,800	5,700 5,700 4,800 3,000 2,500	<500 <500 <500 <500 <500	.	<10 .	<10 <10 <10 <10 <10

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
1-N-4	09MAR89		18,600	12,700	2,600	<500	.	<10	<10
	26JUN89		7,700	18,400	2,200	<500	.	.	<10
	15AUG89		5,100	15,300	1,800	<500	.	.	<10
	29SEP89		2,800	12,700	1,600	<500	.	.	<10
	08NOV89		3,700	12,400	1,700	<500	.	.	<10
1-N-14	09MAR89		30,900	8,800	700	<500	.	<10	<10
	27JUL89		17,800	28,600	8,100	<500	.	.	<10
	15AUG89		111,800	18,600	3,700	<500	.	.	<10
	26SEP89		8,700	15,400	2,600	<500	.	.	<10
	26SEP89	1	8,800	15,400	2,700	<500	.	.	<10
	14NOV89		8,300	15,500	2,400	<500	.	.	<10
	14NOV89	1	8,500	15,600	2,500	<500	.	.	<10
1-N-16	20JUN89		<500	463,000	54,600	1,300	.	.	.
	18AUG89		<500	168,000	31,000	600	.	.	<10
	28SEP89		<500	392,000	30,000	1,600	.	.	<10
	13NOV89		<500	283,000	19,800	1,600	407	<10	<10
1-N-17	20JUN89		<500	128,000	8,700	<500	.	.	.
	18AUG89		1,800	69,000	8,000	500	.	.	<10
	26SEP89		3,800	68,000	7,000	<500	.	.	<10
	10NOV89		2,400	64,000	5,600	<500	232	<10	<10
1-N-18	20JUN89		<500	109,000	10,800	<500	.	.	.
1-N-21	17JUL89		24,100	312,000	18,000	720	.	.	<10
	21AUG89		17,800	168,000	13,000	<500	.	.	<10
	28SEP89		11,000	129,000	7,000	<500	.	.	<10
	13NOV89		10,600	213,000	10,800	800	299	<10	<10
1-N-23	22AUG89		<500	231,000	15,000	800	.	.	.
	20SEP89		<500	221,000	14,000	<1,000	.	.	.
	11DEC89		1,700	222,000	17,600	<500	277	<10	.
1-N-24	21AUG89		3,700	345,000	8,300	900	.	.	.
	20SEP89		1,700	180,000	15,000	<1,000	.	.	.
	06DEC89		3,700	37,200	5,500	<500	239	<10	.
1-N-25	21AUG89		12,700	257,000	8,000	600	.	.	.
	20SEP89		5,200	408,000	8,000	<1,000	.	.	.
	06DEC89		15,300	278,000	11,300	<500	182	<10	.

C.20

9 2 1 2 6 3 9 0 1 0 4

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
1-N-26	22AUG89		28,100	59,000	7,000	900	.	.	.
	18SEP89		25,300	57,000	6,000	700	.	.	.
	12DEC89		11,600	190,000	5,900	700	729	<10	.
1-N-27	06MAR89		9,100	11,800	800	<500	.	<10	<10
	27JUN89		500	11,900	900	<500	.	.	<10
	12DEC89		6,100	8,200	1,000	<500	167	<10	<10
1-N-29	06MAR89		5,400	12,500	900	<500	.	<10	<10
	27JUN89		2,200	10,600	1,200	<500	.	.	<10
	29NOV89		6,700	11,300	1,500	<500	155	<10	<10
1-N-31	06MAR89		2,600	12,500	1,000	<500	.	<10	<10
	01AUG89		1,500	12,600	1,400	<500	.	.	<10
	28SEP89		2,400	11,500	1,800	<500	.	.	<10
	28SEP89	1	2,400	11,500	1,800	<500	.	.	<10
	01DEC89		4,900	7,300	800	<500	199	<10	<10
1-N-32	06MAR89		7,100	11,200	700	<500	.	<10	<10
	17JUL89		507	10,700	1,100	<500	.	.	<10
	20SEP89		1,400	11,100	1,700	<500	.	.	<10
	30NOV89		3,400	8,700	1,000	<500	189	<10	<10
1-N-33	06MAR89		6,300	10,700	700	<500	.	<10	<10
	14JUL89		1,960	15,500	1,710	<500	.	.	<10
	14JUL89	1	2,130	15,700	1,870	<500	.	.	<10
	21DEC89		5,600	8,500	1,000	<500	175	<10	<10
	21DEC89	1	5,500	8,500	1,000	<500	173	<10	<10
1-N-36	07MAR89		4,800	11,600	900	<500	.	<10	<10
	07MAR89	1	4,600	11,600	900	<500	.	<10	<10
	27JUN89		1,300	13,400	1,500	<500	.	.	<10
	19SEP89		2,300	11,700	1,800	<500	.	.	<10
	01DEC89		4,900	8,000	900	<500	185	<10	<10
1-N-39	21DEC89		6,500	10,800	1,400	<500	.	.	<10
	21DEC89	1	6,500	10,800	1,400	<500	.	.	<10
1-N-41	08MAR89		22,700	10,100	1,000	<500	.	<10	<10
	27JUN89		4,800	24,300	4,200	<500	.	.	<10
	19SEP89		1,000	12,700	2,100	<500	.	.	<10
	29NOV89		1,000	12,100	1,600	<500	231	<10	<10

C.21

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
1-N-42	07MAR89		16,000	10,000	1,000	<500	.	<10	<10
	19JUL89		14,500	37,600	10,300	<500	.	.	<10
	20SEP89		3,300	19,400	3,500	<500	.	.	<10
	29NOV89		1,100	14,800	1,800	<500	280	<10	<10
1-N-47	21AUG89		4,200	276,000	30,000	1,300	.	.	.
	18SEP89		6,900	164,000	26,000	<1,000	.	.	.
	11DEC89		3,300	191,000	17,600	<500	290	<10	.
1-N-52	08MAR89		17,200	10,500	900	<500	.	<10	<10
	29JUN89		9,100	32,000	3,900	<500	.	.	<10
	20SEP89		7,700	14,500	1,800	<500	.	.	<10
	01DEC89		9,800	17,900	2,100	<500	259	<10	<10
1-N-54	21JUN89		22,600	99,900	5,900	<500	.	.	<10
	15AUG89		15,200	56,000	6,300	<500	.	.	<10
	02OCT89		11,900	51,000	4,800	<500	.	.	<10
	01NOV89		9,500	42,100	3,700	<500	235	<10	<10
1-N-55	21JUN89		21,400	212,000	7,600	500	.	.	<10
	21JUN89	1	21,400	211,000	7,400	<500	.	.	<10
	15AUG89		10,200	106,000	5,900	<500	.	.	<10
	02OCT89		8,700	114,000	4,200	<500	.	.	<10
	01NOV89		93,000	122,000	4,200	<500	261	<10	<10
1-N-56	21JUN89		63,600	227,000	14,200	900	.	.	<10
	15AUG89		8,100	47,000	7,800	<500	.	.	<10
	02OCT89		9,000	59,000	6,000	<500	.	.	<10
	01NOV89		8,400	73,000	6,200	<500	115	<10	<10
1-N-57	20JUN89		24,700	117,000	7,500	<500	.	.	<10
	16AUG89		10,400	57,000	6,600	<500	.	.	<10
	02OCT89		8,100	50,000	3,300	<500	.	.	<10
	02NOV89		8,800	56,200	3,200	<500	300	<10	<10
1-N-58	02MAR89		3,500	1180000	4,800	<500	.	<10	<10
	25JUL89		3,310	1350000	6,460	2,390	.	<10	<10
	14AUG89		2,400	1140000	4,800	2,200	.	.	<10
	18SEP89		2,800	1180000	6,200	2,900	.	.	<10
	15NOV89		5,200	1560000	10,500	3,300	.	.	<10
1-N-59	01MAR89		3,000	742,000	3,900	<500	.	<10	<10
	01MAR89	1	3,100	754,000	3,900	<500	.	<10	<10

C.22

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
1-H-60	17JUL89		3,200	1170000	5,540	2,110	.	<10	<10
	14AUG89		3,000	1550000	8,400	2,600	.	.	<10
	18SEP89		3,100	1760000	8,000	3,500	.	.	<10
	16NOV89		4,000	1010000	7,700	2,100	.	.	<10
1-H-61	02MAR89		2,900	833,000	5,000	<500	.	<10	<10
	01AUG89		2,100	1180000	5,300	2,100	.	<10	<10
	01AUG89	1	2,100	1170000	5,300	2,100	.	<10	<10
	14AUG89		1,900	1150000	4,800	2,100	.	.	<10
	18SEP89		2,800	1100000	6,500	2,700	.	.	<10
	16NOV89		3,500	1430000	9,300	2,800	.	.	<10
	16NOV89	1	3,600	1440000	9,200	2,700	.	.	<10
1-H-66	02MAR89		1,800	495,000	2,500	800	.	<10	<10
	28JUL89		3,000	2030000	13,400	3,400	.	<10	<10
	14AUG89		2,400	2180000	12,000	3,500	.	.	<10
	19SEP89		4,300	1840000	14,000	3,900	.	.	<10
	19SEP89	1	4,200	1850000	14,000	3,800	.	.	<10
	16NOV89		1,600	991,000	5,200	2,400	.	.	<10
1-H-67	08MAR89		8,600	12,400	900	<500	.	<10	<10
	02AUG89		3,100	15,900	2,500	<500	.	.	<10
	16AUG89		1,600	12,200	1,500	<500	.	.	<10
	29SEP89		2,400	12,100	1,600	<500	.	.	<10
	08NOV89		3,000	11,300	1,600	<500	.	.	<10
1-H-69	08MAR89		87,900	11,900	1,100	<500	.	<10	<10
	02AUG89		19,200	13,600	1,900	<500	.	.	<10
	16AUG89		23,500	16,000	3,800	<500	.	.	<10
	02OCT89		12,100	19,900	5,700	<500	.	.	<10
	08NOV89		10,300	19,500	6,200	<500	.	.	<10
1-H-70	08MAR89		30,300	9,900	900	<500	.	<10	<10
	02AUG89		29,300	11,400	1,000	<500	.	.	<10
	16AUG89		28,000	11,300	1,000	<500	.	.	<10
	02OCT89		24,500	11,500	1,200	<500	.	.	<10
	08NOV89		22,900	11,000	1,100	<500	.	.	<10
2-E16-2	14DEC89		1,200	17,900	1,300	600	.	<10	.

C.23

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
2-E17-1	19JUN89 15AUG89		151,000 147,000	31,000 31,000	3,700 3,900	500 500	.	.	<10 <10
2-E17-5	16MAY89 22JUN89 21SEP89		97,400 82,600 76,000	28,500 29,800 26,900	3,500 3,700 3,900	500 600 600	.	<10 <10 <10	<10
2-E17-6	16MAY89 21AUG89 25SEP89		3,100 115,000 82,000	20,800 27,100 24,600	3,100 3,600 3,600	<500 600 <500	.	.	<10 <10 <10
2-E17-9	16MAY89 22JUN89 28SEP89		121,000 123,000 109,000	36,900 40,500 39,000	5,500 6,000 5,800	600 600 700	.	<10 <10 <10	<10
2-E17-13	30NOV89 30NOV89	1	28,800	35,400	4,000	<500	531	<10 .	<10 <10
2-E17-14	15MAY89 26JUN89 26JUN89 27SEP89		257,000 284,000 300,000 165,000	36,400 37,600 40,000 30,000	4,100 4,300 4,200 4,100	500 600 600 700	.	<10 .	<10 <10 <10
2-E17-15	17MAY89 17MAY89 27JUL89 21SEP89	1	287,000 288,000 242,000 354,000	38,700 39,300 33,400 35,000	3,300 3,300 3,400 4,000	600 600 600 <1,000	.	<10 <10 .	<10 <10
2-E17-16	15MAY89 26JUN89 25SEP89		56,700 24,500 32,000	102,000 62,300 60,000	24,000 9,400 11,100	500 600 500	.	<10 .	<10 <10 <10
2-E17-17	12MAY89 23JUN89 21SEP89		67,600 65,900 53,000	28,800 29,000 26,400	3,800 3,700 3,800	600 600 600	.	<10 .	<10 <10 <10
2-E17-18	19MAY89 23JUN89 27SEP89 27SEP89		4,900 6,200 11,100 10,700	24,500 24,700 23,200 23,200	2,900 3,200 3,500 3,400	500 700 500 500	.	<10 .	<10 <10 <10
2-E17-19	15FEB89 14JUL89 14AUG89 14AUG89		316,000 88,800 91,000 91,000	34,600 33,000 33,000 33,000	3,500 3,930 3,800 3,900	900 <500 600 500	.	.	<10 <10 <10 <10

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
2-E17-20	15FEB89	1	225,000	33,200	3,700	<500	.	.	<10
	16JUN89		228,000	33,800	3,500	<500	.	.	<10
	16JUN89		228,000	33,800	3,500	<500	.	.	<10
	15AUG89		217,000	32,000	3,700	500	.	.	<10
2-E18-1	15FEB89	1	11,400	149,000	6,900	<500	.	.	<10
	26MAY89		12,000	151,000	7,100	500	.	.	<10
	08AUG89		12,500	153,000	6,000	600	.	.	<10
	31OCT89		12,200	148,000	8,000	500	.	<10	<10
2-E18-2	16FEB89	1	<500	31,600	4,900	700	.	.	<10
	16FEB89		.	600	44,000	8,000	700	.	<10
	01JUN89		.	600	45,000	7,000	700	.	<10
	11AUG89		.	600	45,000	7,000	700	.	<10
	27NOV89		.	.	.	.	.	<10	<10
2-E18-3	16FEB89	1	<500	12,500	6,500	<500	.	.	<10
	01JUN89		500	12,500	7,000	<500	.	.	<10
	01JUN89		<500	12,600	6,900	<500	.	.	12
	08AUG89		<500	13,900	5,800	<500	.	.	<10
	27NOV89		600	15,500	5,400	<500	.	<10	<10
	27NOV89		500	15,500	5,400	<500	.	<10	<10
2-E18-4	15FEB89	1	800	22,100	9,500	<500	.	.	<10
	26MAY89		1,000	35,400	14,600	<500	.	.	<10
	08AUG89		<500	14,900	7,000	<500	.	.	<10
	08AUG89		570	14,800	7,000	<500	.	.	<10
	21NOV89		<500	23,900	9,800	<500	.	<10	<10
2-E24-2	13FEB89	1	69,800	23,300	3,600	<500	.	.	<10
	22JUN89		109,000	24,600	3,700	<500	.	.	<10
	14AUG89		105,000	26,000	3,900	<500	.	.	<10
2-E24-16	14FEB89	1	113,000	26,300	3,700	<500	.	.	<10
	14FEB89		113,000	27,000	3,700	<500	.	.	<10
	19JUN89		108,000	27,900	3,600	<500	.	.	<10
	14AUG89		114,000	27,100	3,600	<500	.	.	<10
2-E24-17	13FEB89	1	107,000	28,100	3,700	<500	.	.	<10
	19JUN89		97,300	26,900	3,500	<500	.	.	<10
	10AUG89		104,000	26,300	3,500	<500	.	.	<10
2-E24-18	14FEB89	1	57,300	25,600	3,600	500	.	.	<10
	19JUN89		58,100	27,800	3,600	600	.	.	<10
	11AUG89		59,000	26,500	3,900	600	.	.	<10

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
2-E25-11	14DEC89		43,300	19,400	2,700	<500	.	<10	.
2-E25-18	28FEB89		29,700	26,900	3,300	<500	.	.	<10
	23JUN89		88,700	26,300	3,400	<500	.	.	<10
	30AUG89		87,000	23,700	3,400	600	.	.	<10
2-E25-20	28FEB89		195,000	73,500	5,100	700	.	.	<10
	21JUN89		224,000	78,400	5,000	800	.	.	<10
	31AUG89		235,000	68,000	4,700	1,000	.	.	<10
2-E25-22	28FEB89		3,800	21,300	3,100	<500	.	.	<10
	18AUG89		3,300	20,900	3,400	<500	.	.	<10
	30AUG89		3,100	21,500	3,400	<500	.	.	<10
	14DEC89		3,800	21,900	3,500	<500	.	<10	<10
2-E25-24	28FEB89		1,100	22,700	1,000	700	.	.	<10
	21JUN89		1,300	22,700	1,400	600	.	.	<10
	30AUG89		1,200	20,800	1,300	617	.	.	<10
	20DEC89		1,600	29,300	1,300	<500	.	<10	<10
2-E25-25	03JAN89		700	11,700	2,900	<500	.	.	<10
	28FEB89		700	13,000	3,100	<500	.	.	<10
	21JUN89		800	14,000	3,300	<500	.	.	<10
	21JUN89	1	.	.	.	.	.	.	<10
	21JUN89	2	.	.	.	.	.	.	<10
	21JUN89	3	.	.	.	.	.	.	<10
	30AUG89		900	11,600	2,800	<500	.	.	12
	30AUG89	1	.	.	.	.	.	.	<10
	30AUG89	2	.	.	.	.	.	.	<10
	30AUG89	3	.	.	.	.	.	.	<10
	13DEC89		900	12,100	3,100	<500	.	.	<10
	13DEC89	1	.	.	.	.	.	.	<10
	13DEC89	2	.	.	.	.	.	.	<10
	13DEC89	3	.	.	.	.	.	.	19
	28FEB89		1,400	14,800	2,800	<500	.	.	<10
2-E25-26	12JUL89		1,600	17,500	3,110	<500	.	<10	<10
	11AUG89		1,500	15,700	3,000	<500	.	.	<10
	29AUG89		1,400	15,300	2,900	<500	.	.	<10
	01NOV89		1,100	12,900	2,900	<500	.	<10	<10
	28FEB89		2,200	17,300	3,100	<500	.	.	<10
2-E25-27	12JUL89		2,270	19,300	3,470	<500	.	.	<10
	31AUG89		2,200	16,700	3,300	<500	.	.	<10

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
2-E25-28	24FEB89		900	12,400	2,800	<500	.	.	<10
	20JUL89		996	13,800	2,990	<500	.	.	<10
	24JUL89		.	.	.	.	.	.	
	29AUG89	1	1,000	14,100	3,300	<500	.	.	<10
	29AUG89		900	14,200	3,300	<500	.	.	<10
	27OCT89		1,600	12,500	3,100	<500	.	<10	<10
2-E25-29P	03JAN89		6,800	36,100	2,800	<500	.	.	<10
	27FEB89		8,800	35,800	2,900	<500	.	.	<10
	14JUL89		12,900	50,800	2,940	534	.	<10	<10
	17AUG89		.	.	.	.	.	.	<10
	17AUG89	1	.	.	.	.	.	.	<10
	17AUG89	2	.	.	.	.	.	.	<10
	17AUG89	3	.	.	.	.	.	.	<10
	30AUG89		9,100	35,000	2,800	500	.	.	<10
	30AUG89	1	.	.	.	.	.	.	<10
	30AUG89	2	.	.	.	.	.	.	<10
	30AUG89	3	.	.	.	.	.	.	<10
	12DEC89		7,100	31,000	3,100	<500	.	.	<10
	12DEC89	1	7,100	31,500	3,100	<500	.	.	<10
	12DEC89	2	.	.	.	.	.	.	<10
	12DEC89	3	.	.	.	.	.	.	<10
2-E25-30P	27FEB89		3,600	62,600	1,700	500	.	.	32
	27FEB89	1	3,500	58,100	1,700	<500	.	.	<10
	18JUL89		8,400	84,200	2,270	<500	.	.	18
	29AUG89		8,700	79,000	2,200	700	.	.	<10
	30AUG89		.	.	.	.	.	.	
2-E25-31	03JAN89		7,100	25,200	2,700	<500	.	.	11
	03JAN89	1	7,100	25,100	2,800	<500	.	.	<10
	27FEB89		8,900	27,100	2,700	<500	.	.	<10
	14JUL89		11,100	29,200	3,490	<500	.	<10	<10
	17AUG89		.	.	.	.	.	.	<10
	17AUG89	1	.	.	.	.	.	.	<10
	17AUG89	2	.	.	.	.	.	.	<10
	17AUG89	3	.	.	.	.	.	.	<10
	30AUG89		22,400	30,000	4,700	600	.	.	<10
	30AUG89	1	.	.	.	.	.	.	<10
	30AUG89	2	.	.	.	.	.	.	<10
	30AUG89	3	.	.	.	.	.	.	<10
	12DEC89		20,600	31,900	4,600	<500	.	.	<10
	12DEC89	1	.	.	.	.	.	.	42
	12DEC89	2	.	.	.	.	.	.	<10
	12DEC89	3	.	.	.	.	.	.	<10

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
2-E25-32P	04JAN89		800	12,000	2,800	<500	.	.	<10
	24FEB89		700	13,000	2,900	<500	.	.	<10
	13JUL89		1,270	13,300	2,950	<500	.	<10	<10
	13JUL89	1	1,020	13,300	2,930	<500	.	<10	<10
	13JUL89	2	.	.	.	.	.	.	<10
	13JUL89	3	.	.	.	.	.	.	<10
	29AUG89		800	11,800	2,900	<500	.	.	<10
	30AUG89	1	.	.	.	.	.	.	<10
	30AUG89	2	.	.	.	.	.	.	<10
	30AUG89	3	.	.	.	.	.	.	<10
	31OCT89		1,100	11,700	2,900	<500	.	<10	<10
	12DEC89		700	12,500	3,000	<500	.	.	<10
	12DEC89	1	.	.	.	.	.	.	<10
	12DEC89	2	.	.	.	.	.	.	<10
	12DEC89	3	.	.	.	.	.	.	<10
2-E25-33	31JAN89		8,600	47,400	4,200	700	.	.	10
	02MAR89		11,900	58,800	4,100	600	.	.	<10
	27JUL89		7,800	44,900	4,500	700	.	.	<10
	27JUL89	1	.	.	.	.	.	.	<10
	27JUL89	2	.	.	.	.	.	.	<10
	27JUL89	3	.	.	.	.	.	.	<10
	31AUG89		7,400	44,000	4,200	700	.	.	<10
	31AUG89	1	.	.	.	.	.	.	<10
	31AUG89	2	.	.	.	.	.	.	<10
	31AUG89	3	.	.	.	.	.	.	<10
	12DEC89		7,000	43,000	4,500	600	.	.	<10
	12DEC89	1	.	.	.	.	.	.	<10
	12DEC89	2	.	.	.	.	.	.	<10
	12DEC89	3	.	.	.	.	.	.	<10
2-E25-34	27FEB89		1,100	13,400	2,800	<500	.	.	<10
	27FEB89	1	.	.	.	.	.	.	<10
	17JUL89		1,090	15,000	3,190	<500	.	.	<10
	30AUG89		1,200	14,700	3,300	<500	.	.	<10
	31OCT89		1,200	12,600	3,100	<500	.	<10	<10
2-E25-35	27FEB89		7,800	201,000	7,200	600	.	.	<10
	17JUL89		5,960	142,000	6,190	588	.	.	<10
	17JUL89	1	6,830	165,000	6,820	616	.	.	10
	30AUG89		6,300	221,000	8,000	1,000	.	.	<10
	30OCT89		6,800	19,000	6,900	700	.	<10	<10

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
2-E25-36	14FEB89		3,400	24,200	3,300	<500	.	.	<10
	19JUN89		5,300	28,600	3,600	<500	.	.	<10
	24OCT89		6,200	24,300	3,800	<500	.	.	<10
2-E25-37	21DEC89	1	2,000	16,100	2,700	<500	.	.	<10
	21DEC89		.	.	.	.	.	.	<10
	21DEC89		2	.	.	.	.	.	<10
	21DEC89		3	.	.	.	.	.	13
2-E25-38	20DEC89	1	1,900	17,900	3,300	<500	.	.	<10
	20DEC89		2	.	.	.	.	.	<10
	20DEC89		3	.	.	.	.	.	35
	20DEC89		.	.	.	.	.	.	<10
2-E27-8	13MAR89		7,200	43,800	6,900	<500	.	<10	<10
	27JUL89		7,600	49,100	7,500	<500	.	<10	<10
	08SEP89		7,600	49,000	8,000	<500	.	<10	<10
2-E27-9	13MAR89	1	7,400	50,400	7,700	<500	.	<10	<10
	13MAR89		7,400	48,700	7,700	<500	.	<10	<10
	27JUL89		8,200	53,100	7,600	<500	.	<10	<10
	06SEP89		7,600	50,000	7,000	<500	.	<10	<10
2-E27-10	13MAR89		3,300	18,000	4,100	<500	.	<10	<10
	21JUL89		3,150	18,000	4,440	<500	.	<10	<10
	06SEP89		2,900	17,300	4,400	<500	.	<10	<10
2-E28-26	16MAR89		49,300	91,100	8,800	600	.	<10	<10
	27JUL89		48,500	89,700	9,400	600	.	<10	<10
	07SEP89		43,000	81,000	9,000	700	.	<10	<10
2-E28-27	15MAR89	1	23,100	33,000	5,700	600	.	<10	<10
	28JUL89		30,700	36,800	5,700	700	.	<10	<10
	28JUL89		31,000	37,100	5,700	600	.	<10	<10
	07SEP89		29,000	34,000	5,400	600	.	<10	<10
2-E32-2	13MAR89		15,900	30,000	8,700	600	.	<10	<10
	01AUG89		20,900	32,000	7,000	600	.	<10	<10
	06SEP89		21,600	31,000	8,000	600	.	<10	<10
2-E32-3	06SEP89		54,000	54,000	6,300	600	.	<10	<10

C.29

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
2-E32-4	01MAR89	1	24,600	60,800	8,400	500	.	.	<10
	13MAR89		24,800	67,400	9,300	600	.	<10	<10
	16JUN89		29,000	68,300	9,100	600	.	.	<10
	19JUL89		29,600	70,300	9,220	580	.	<10	<10
	08SEP89		24,500	62,000	9,000	600	.	<10	<10
2-E33-1	20JUL89	1	38,000	26,500	4,870	<500	.	<10	<10
2-E33-28	16MAR89		3,500	22,700	5,500	<500	.	<10	<10
	01AUG89		4,000	25,300	7,000	<500	.	<10	<10
	12SEP89		4,100	25,900	8,000	<500	.	<10	<10
	12SEP89		4,100	25,900	7,000	<500	.	<10	<10
2-E33-29	16MAR89	1	7,600	28,800	19,600	<500	.	<10	<10
	01AUG89		7,100	28,100	18,000	600	.	<10	14
	07SEP89		6,900	27,600	18,000	<500	.	<10	<10
2-E33-30	14MAR89	1	7,400	29,900	17,200	<500	.	<10	<10
	01AUG89		7,100	30,000	17,000	500	.	<10	<10
	07SEP89		6,800	29,300	17,000	<500	.	<10	<10
2-E34-1	04DEC89	1	10,000	96,700	12,000	500	.	<10	.
2-E34-2	15MAR89		15,400	135,000	12,200	<500	.	<10	<10
	01AUG89		13,700	116,000	12,000	500	.	<10	76
	06SEP89		13,000	110,000	11,000	700	.	<10	19
	27NOV89		12,000	100,000	11,500	500	.	<10	92
2-E34-3	14MAR89	1	5,100	34,900	6,600	<500	.	<10	<10
	31JUL89		4,600	34,000	6,500	<500	.	<10	<10
	07SEP89		4,300	33,000	6,500	<500	.	<10	<10
2-E34-5	15MAR89	1	13,600	108,000	21,300	<500	.	<10	<10
	31JUL89		13,400	107,000	22,000	<500	.	<10	<10
	06SEP89		13,200	105,000	21,000	500	.	<10	11
2-E34-6	16MAR89	1	6,400	81,600	18,100	600	.	<10	<10
	31JUL89		6,400	81,000	19,000	600	.	<10	.
	01AUG89		6,500	80,000	19,000	700	.	<10	<10
	06SEP89		6,500	80,000	19,000	700	.	<10	<10
2-W6-2	04JAN89	1	71,700	25,300	5,400	<500	.	<10	33
	09MAY89		74,900	26,500	5,700	<500	.	<10	39
	21JUL89		74,500	27,200	5,660	<500	.	<10	36

C.30

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
	21JUL89 07SEP89	1	73,200 24,600	27,000 25,700	5,570 3,500	<500 <500	.	<10 .	32 41
2-W7-1	10MAY89 10JUL89 07SEP89		42,600 45,100 43,000	49,200 51,700 50,000	9,000 9,620 9,000	<500 <500 <500	.	<10 <10 .	<10 <10 <10
2-W7-2	20MAR89, 20JUL89 07SEP89		29,900 25,600 42,000	24,400 26,400 50,000	3,000 3,750 9,000	<500 <500 <500	.	<10 <10 .	12 12 12
2-W7-3	20MAR89 28JUL89 15SEP89		3,000 3,300 3,200	24,200 25,500 23,000	3,900 4,500 4,200	<500 <500 <500	.	<10 <10 .	<10 <10 <10
2-W7-4	22MAR89 24JUL89 13SEP89		74,200 77,000 74,000	32,000 32,200 31,000	17,800 18,700 18,000	<500 <500 <500	.	<10 <10 .	14 11 <10
2-W7-5	17MAR89 25JUL89 08SEP89		43,300 44,800 45,000	27,500 28,300 28,000	13,500 13,900 14,000	<500 <500 <500	.	<10 <10 .	11 10 <10
2-W7-6	17MAR89 26JUL89 08SEP89		5,300 5,600 5,900	27,700 32,400 35,000	6,000 6,200 5,900	<500 <500 500	.	<10 <10 .	<10 <10 .
2-W8-1	12MAY89 10JUL89 12SEP89		28,200 30,400 30,000	45,300 49,000 48,000	15,100 15,900 17,000	<500 <500 <500	.	<10 <10 .	<10 12 <10
2-W9-1	12MAY89 10JUL89 11SEP89		18,800 18,500 20,300	49,600 49,400 52,000	18,600 19,400 20,000	<500 <500 <500	.	<10 <10 .	<10 11 11
2-W10-13	03JAN89 22MAR89 25JUL89 13SEP89 13SEP89	1	7,800 8,100 8,000 7,700 7,700	22,300 22,800 23,600 22,200 22,200	21,800 22,300 22,800 23,000 23,000	<500 <500 <500 <500 <500	.	<10 <10 <10 .	<10 <10 <10 <10
2-W10-14	03JAN89 21MAR89 27JUL89 15SEP89		18,500 21,100 22,200 20,400	25,000 25,200 26,400 23,800	9,300 9,200 9,300 8,000	<500 <500 <500 <500	.	<10 <10 <10 .	<10 <10 <10 <10

C.31

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
2-W15-12	05JUN89		116,000	59,300	34,500	1,600	.	<10	.
2-W15-15	15MAY89		10,500	14,600	3,500	<500	.	<10	<10
	11JUL89		13,400	15,600	3,680	<500	.	<10	<10
	12SEP89		15,300	14,900	3,900	<500	.	.	<10
2-W15-16	09MAY89		70,700	69,100	22,600	697	.	<10	12
	25JUL89		69,800	70,200	21,900	706	.	<10	12
	22SEP89		67,000	67,000	22,000	700	.	.	<10
2-W15-17	31MAY89		16,700	41,500	16,000	<500	.	<10	.
	27SEP89		16,800	37,000	16,000	<500	.	.	.
2-W15-18	15MAY89		68,900	21,500	38,300	600	.	<10	13
	11JUL89		73,500	23,000	4,020	<500	.	<10	<10
	25SEP89		72,000	20,000	4,000	700	.	.	26
2-W18-4	06JUN89		39,100	22,800	8,600	500	.	<10	.
2-W18-17	06JUN89		1,100	6,300	3,600	<500	.	<10	.
2-W18-21	22MAR89		2,200	14,000	2,800	<500	.	<10	<10
	16MAY89		3,000	14,400	3,100	<500	.	<10	<10
	16MAY89		2,600	14,400	3,100	<500	.	<10	<10
	12SEP89		2,500	14,700	3,400	<500	.	.	<10
2-W18-22	15JUN89		16,900	19,600	9,600	<500	.	<10	<10
	31JUL89		15,800	18,800	9,000	<500	.	<10	<10
	22SEP89		15,800	18,000	9,000	<500	.	.	<10
2-W18-23	03JAN89		5,800	14,800	2,800	<500	.	<10	<10
	11MAY89		5,700	15,600	3,100	<500	.	<10	<10
	24JUL89		5,870	16,000	3,340	<500	.	<10	<10
	22SEP89		5,800	15,000	3,300	<500	.	.	<10
2-W18-24	04JAN89		22,000	20,300	3,500	600	.	<10	<10
	11MAY89		21,700	20,500	3,800	600	.	<10	<10
	28JUL89		20,700	21,200	4,200	700	.	<10	<10
	25SEP89		18,700	19,300	4,000	600	.	.	<10
2-W19-19	31OCT89		1280000	65,000	22,000	<1,000	341	<10	<10
2-W19-20	30OCT89		1050000	65,000	20,000	<500	339	<10	<10
2-W19-21	02NOV89		700	13,200	1,400	<500	205	<10	<10

C.32

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TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
2-W19-23	27OCT89		495,000	71,000	26,000	<1,000	418	<10	<10
2-W19-24	30OCT89		980,000	64,000	19,000	<1,000	367	<10	<10
2-W19-26	27OCT89		1300000	62,000	27,000	<1,000	376	<10	<10
2-W19-27	02NOV89		900	11,500	1,300	500	.	<10	<10
3-1-3	21NOV89		1,100	17,000	24,600	<500	.	<10	<10
3-1-7	02JUN89 21NOV89 19DEC89 19DEC89	1	4,200 1,200 1,300 1,300	22,000 17,000 18,900 18,900	20,100 22,500 25,600 25,600	<500 <500 <500 <500	.	<10 <10 .	<10 <10 <10 <10
3-1-10	07JUN89 18DEC89		2,300 1,300	22,300 18,600	7,500 4,600	<500 <500	.	<10 .	<10 <10
3-1-11	05JAN89 19JAN89 01FEB89 17FEB89 01MAR89 16MAR89 14JUN89 03AUG89 17AUG89 28AUG89 13SEP89 27SEP89 19DEC89		2,300 2,400 1,500 2,100 1,800 1,300 1,200 1,100 500 1,200 1,300 1,700 1,200	18,400 17,700 16,800 17,200 16,500 18,000 18,500 20,400 19,200 19,600 16,800 16,700 15,400	12,000 9,900 13,000 22,900 12,200 9,500 5,600 50,000 5,300 5,300 6,200 6,100 4,100	<500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500	.	.	.
3-1-12	02JUN89 18DEC89		1,200 1,300	19,100 15,800	75,100 10,900	<500 <500	.	<10 .	<10 <10
3-1-13	06JUN89 18DEC89		1,400 4,000	21,000 22,600	5,600 6,600	<500 <500	.	<10 .	<10 <10
3-1-14	06JUN89 18DEC89		1,100 2,500	19,600 20,300	6,200 5,400	<500 <500	.	<10 .	<10 <10
3-1-15	09JUN89 09JUN89 18DEC89	1	2,700 2,800 21,200	23,100 23,200 48,700	6,100 6,100 18,200	<500 <500 <500	.	<10 <10 .	<10 <10 <10

9 2 1 2 6 3 9 0 1 1 7

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
3-1-16A	13JAN89		2,800	16,000	16,100	<500	.	.	<10
	27JAN89		2,900	16,500	21,300	<500	.	.	<10
	07JUN89		3,600	21,300	14,300	<500	.	<10	<10
	18DEC89		1,300	19,300	11,200	<500	.	.	<10
3-1-16B	13JAN89		<500	10,200	11,500	1,300	.	.	<10
	27JAN89		<500	12,100	12,700	1,200	.	.	<10
	07JUN89		<500	15,400	12,000	1,200	.	<10	<10
	18DEC89		<500	17,900	11,200	1,100	.	.	<10
3-1-16C	13JAN89		<500	15,600	12,600	1,200	.	.	<10
	27JAN89		1,500	22,000	15,800	900	.	.	<10
	07JUN89		800	18,000	12,100	1,100	.	<10	<10
3-1-17A	05JAN89		1,800	16,100	46,300	<500	.	.	.
	19JAN89		3,100	17,400	22,800	<500	.	.	.
	01FEB89		2,500	18,700	32,500	<500	.	.	.
	17FEB89		2,500	17,400	29,500	<500	.	.	.
	01MAR89		2,300	16,900	23,400	<500	.	.	.
	16MAR89		2,000	17,400	15,800	<500	.	.	.
	10MAY89		1,600	22,400	15,800	<500	.	.	.
	05JUN89		1,100	19,500	14,000	<500	.	<10	<10
	03AUG89		1,500	27,000	18,000	<500	.	.	.
	17AUG89		1,800	20,200	7,000	<500	.	.	.
	28AUG89		1,200	19,700	10,000	<500	.	.	.
	13SEP89		1,000	17,100	7,000	<500	.	.	.
	27SEP89		1,000	17,000	6,000	<500	.	.	.
	04OCT89		2,000	18,200	15,000	<500	.	.	.
	10OCT89		1,200	19,300	12,000	<500	.	.	.
	17OCT89		1,000	17,800	17,000	<500	.	.	.
	24OCT89		1,200	17,500	17,000	<500	.	.	.
	31OCT89		1,200	16,600	8,000	<500	.	.	.
	07NOV89		800	21,200	57,400	<500	.	.	.
	14NOV89		1,100	16,000	7,400	<500	.	.	.
	21NOV89		1,200	26,400	58,500	<500	.	.	.
	28NOV89		1,100	18,100	7,800	<500	.	.	.
	05DEC89		1,000	17,500	13,000	<500	.	.	.
	12DEC89		1,000	15,600	16,200	<500	.	.	.
	19DEC89		1,400	14,200	12,300	<500	.	.	.
	28DEC89		1,200	16,400	34,000	<500	.	.	<10
3-1-17B	05JUN89		<500	700	10,900	1,000	.	<10	<10
	19DEC89		<500	<500	9,900	900	.	.	<10

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>	
3-1-17C	05JUN89		<500	<500	11,300	1,700	.	<10	<10	
3-1-18A	05JAN89 19JAN89 01FEB89 17FEB89 01MAR89 16MAR89 10MAY89 08JUN89 03AUG89 17AUG89 28AUG89 27SEP89 18DEC89		21,600 22,200 22,500 22,400 21,000 21,300 22,600 23,600 22,000 22,300 22,700 21,200 22,200	48,900 49,800 49,900 50,700 46,400 49,300 48,600 51,500 49,000 50,000 52,000 47,000 49,600	16,300 16,600 <500 17,200 17,400 <500 16,300 <500 17,000 <500 19,000 <500 17,000	1,700 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500 <500	.	.	.	.
3-1-18B	08JUN89		<500	<500	11,200	1,500	.	<10	<10	
3-1-19	05JAN89 19JAN89 01FEB89 17FEB89 01MAR89 16MAR89		1,900 3,800 2,800 2,700 1,800 1,600	16,800 20,200 18,300 18,100 16,900 17,200	53,500 39,200 27,000 28,000 18,200 12,000	<500 <500 <500 <500 <500 <500	.	.	.	
3-2-1	09JUN89 19DEC89		9,400 5,400	14,800 16,400	11,700 13,300	500 <500	.	<10	<10	
3-2-2	09JUN89		4,100	22,200	21,800	<500	.	<10	<10	
3-3-7	16AUG89 16AUG89 19DEC89	1	14,900 14,700 12,300	36,000 37,000 32,200	13,000 13,000 13,000	<500 <500 <500	.	<10 <10 .	<10 <10 <10	
3-3-9	12JUN89 19DEC89		9,900 10,700	22,800 18,200	8,800 8,700	<500 <500	.	<10 .	<10 <10	
3-3-10	02JUN89 19DEC89		6,900 11,700	23,200 19,900	4,900 9,000	<500 <500	.	<10 .	<10 <10	
3-4-1	12JUL89 20DEC89		16,600 14,300	34,400 28,000	14,400 9,800	<500 <500	.	<10 .	<10 <10	
3-4-7	13JUN89 20DEC89		11,000 13,800	30,800 31,700	9,900 12,900	<500 <500	.	<10 .	<10 <10	

C.35

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/t</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
3-4-11	06JUN89		13,100	30,900	11,000	<500	.	<10	<10
	20DEC89		14,800	29,300	10,500	<500	.	.	<10
3-8-1	05JUN89		15,500	32,800	13,300	<500	.	<10	<10
	20DEC89		20,900	29,100	10,200	<500	.	.	<10
3-8-2	13JUN89		21,600	29,700	9,900	<500	.	<10	<10
3-8-3	14JUN89		14,300	38,600	14,900	<500	.	<10	<10
6-S43-E12	07FEB89		23,400	28,900	50,200	<500	.	.	<10
	31MAY89		20,300	30,000	43,400	<500	.	.	<10
	06NOV89		13,300	17,900	29,400	<500	.	<10	<10
6-S41-E13A	11JAN89		6,800	11,600	1,800	<500	.	.	.
	08FEB89		6,500	11,700	2,100	<500	.	.	<10
	07MAR89		7,200	11,400	3,400	<500	.	.	.
	24MAY89		6,000	10,800	10,300	<500	.	.	<10
	30MAY89		7,200	12,600	4,600	<500	.	.	<10
	03NOV89		12,000	10,400	1,500	<500	.	<10	<10
6-S41-E13B	11JAN89		3,300	11,000	8,500	<500	.	.	.
	08FEB89		3,800	10,800	8,500	<500	.	.	<10
	07MAR89		3,900	11,100	8,700	<500	.	.	.
	30MAY89		3,800	11,700	9,400	<500	.	.	<10
	06NOV89		3,100	10,500	9,400	<500	.	<10	<10
6-S40-E14	11JAN89		700	12,300	1,100	<500	.	.	.
	07FEB89		700	11,900	800	<500	.	.	<10
	07MAR89		900	12,100	1,100	<500	.	.	.
	30MAY89		<500	10,300	1,000	<500	.	.	<10
	03NOV89		1,000	11,100	1,300	<500	.	<10	<10
6-S37-E14	08FEB89		1,200	11,500	1,300	<500	.	.	<10
	31MAY89		1,500	14,800	1,800	<500	.	.	<10
	06NOV89		1,300	11,100	2,400	<500	.	<10	<10
	06NOV89	1	1,300	11,100	1,900	<500	.	<10	<10
6-S36-E13A	30JAN89		5,200	13,800	5,000	<500	.	.	<10
	24MAY89		6,100	15,200	5,600	<500	.	.	<10
6-S32-E13A	17JAN89		32,100	27,500	8,300	<500	.	.	<10
	24MAY89		29,400	26,000	7,800	<500	.	.	<10

9 2 1 2 6 3 9 0 . 1 2 0

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
6-S32-E13B	17JAN89 24MAY89		31,300 26,800	25,700 24,200	7,900 8,300	<500 <500	.	.	<10 <10
6-S31-E13	17JAN89 24MAY89		34,400 28,300	26,500 25,800	8,000 8,200	<500 <500	.	.	<10 <10
6-S29-E12	17JAN89 24MAY89		21,900 23,700	34,900 34,300	11,500 12,800	<500 <500	.	.	<10 <10
6-23-34	11JAN89 19MAY89 07AUG89 10OCT89 10OCT89 25OCT89		29,100 29,100 28,100 27,200 27,300 28,600	47,800 45,800 47,000 46,000 46,000 46,000	7,700 7,700 7,000 8,000 8,000 7,000	<500 <500 <500 500 500 500	370 457 434 . . . . . .	.	<10 <10 <10 <10 <10 . .
6-24-33	10JAN89 18MAY89 07AUG89		34,800 34,000 33,000	42,300 40,200 41,000	7,200 6,800 7,000	500 500 500	370 463 505	.	<10 <10 <10
6-24-34A	10JAN89 10JAN89 19MAY89 07AUG89	1	33,300 33,000 30,500 29,000	43,800 44,100 44,400 47,000	7,400 7,300 7,400 7,000	500 <500 <500 <500	390 390 440 490	.	<10 <10 <10 . .
6-24-34B	10JAN89 19MAY89 07AUG89 10OCT89		35,900 35,200 34,000 34,000	41,200 42,300 43,000 42,000	7,100 7,200 6,800 7,000	500 500 500 600	410 431 480 . .	.	<10 <10 <10 <10
6-24-34C	17JAN89 17MAY89 17MAY89 07AUG89 10OCT89 25OCT89	1	37,000 33,600 33,600 33,000 35,000 34,000	43,500 40,300 40,000 41,000 41,000 40,000	7,900 6,700 6,700 6,000 7,000 6,000	<500 500 500 <500 600 800	410 530 501 497 . . . .	.	<10 <10 <10 <10 <10 <10
6-24-35	10JAN89 18MAY89 07AUG89 07AUG89 10OCT89 25OCT89		27,900 28,200 27,600 27,700 27,400 28,300	44,800 49,800 48,000 48,000 46,000 47,000	7,700 8,100 7,000 6,000 7,000 7,000	500 <500 <500 <500 600 500	400 523 513 529 . . . .	.	<10 <10 <10 <10 <10 <10

9 2 1 2 6 3 9 0 1 2 1

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, µg/L</u>	<u>Sulfate, µg/L</u>	<u>Chloride, µg/L</u>	<u>Fluoride, µg/L</u>	<u>Low Level Fluoride, µg/L</u>	<u>Cyanide, µg/L</u>	<u>Filtered Chromium, µg/L</u>
6-25-33A	04AUG89	1	3,600	25,000	6,400	500	.	.	.
	04OCT89		4,200	25,700	6,400	500	.	.	.
	04OCT89		4,200	25,600	6,400	500	.	.	.
6-25-34A	03AUG89		29,900	33,000	5,700	500	.	.	.
	04OCT89		28,800	31,000	5,700	600	.	.	.
6-25-34B	03AUG89		29,000	34,000	5,900	600	.	.	.
	03AUG89	1	29,000	34,000	5,800	600	.	.	.
	04OCT89		29,100	32,000	5,700	600	.	.	.
6-25-34C	10JAN89		33,400	38,800	6,600	500	480	.	<10
	18MAY89		31,200	36,400	6,300	500	586	.	<10
	07AUG89		30,000	38,000	6,400	500	550	.	<10
	10OCT89		31,000	37,000	6,600	600	.	.	<10
	25OCT89		31,000	37,000	6,400	500	.	.	<10
C.38	6-26-33	04AUG89	29,600	32,000	5,700	700	.	.	.
		04OCT89	28,200	31,000	5,500	600	.	.	.
6-26-34	04AUG89		28,500	32,000	5,600	600	.	.	.
	04OCT89		27,200	30,000	5,400	600	.	.	.
6-26-35A	04AUG89		31,000	37,000	6,500	500	.	.	.
	04OCT89		30,000	35,000	6,300	600	.	.	.
6-26-35C	04AUG89		22,000	51,000	8,600	<500	.	.	.
	04OCT89		22,300	50,000	8,000	500	.	.	.
6-32-70B	17JAN89		19,200	23,600	12,100	<500	.	.	23
6-35-66	13JAN89		24,700	28,100	18,100	<500	.	.	20
6-35-70	13JAN89		29,200	29,200	23,700	<500	.	.	<10
6-35-78A	12JAN89		500	11,100	3,100	<500	.	.	13
6-36-61B	16JAN89		9,300	27,900	6,700	<500	.	.	.
6-38-70	13JAN89		237,000	51,200	27,400	500	.	<10	<10
6-39-79	23FEB89		6,300	15,800	3,400	<500	.	<10	<10
6-40-39	05DEC89		<500	4,500	3,100	700	.	<10	<10

9 2 1 2 6 3 9 0 1 2 2

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
6-41-40	05DEC89		18,800	31,800	6,400	600	.	<10	<10
6-42-40A	15FEB89		600	13,500	3,100	<500	.	.	<10
	31MAY89		700	13,700	3,100	<500	.	.	<10
	10AUG89		6,500	19,100	4,000	500	.	.	<10
6-42-40B	11DEC89		<500	5,600	3,200	<500	.	<10	.
6-42-42B	24FEB89		6,400	18,400	3,600	<500	.	.	<10
	16JUN89		6,200	18,900	3,900	600	.	.	<10
	16JUN89	1	6,400	18,800	3,900	600	.	.	<10
	09AUG89		6,500	19,000	3,800	<500	.	.	<10
6-43-41E	05DEC89		9,300	33,500	6,600	500	.	<10	<10
6-43-41F	05DEC89		9,500	25,800	6,000	<500	.	<10	<10
6-43-42J	24FEB89		1,800	12,600	3,000	<500	.	.	<10
	15JUN89		1,800	13,900	3,500	<500	.	.	<10
	09AUG89		1,400	12,800	3,400	<500	.	.	<10
	09AUG89	1	1,400	12,800	3,400	<500	.	.	<10
6-43-43	24FEB89		700	11,000	2,900	<500	.	.	<10
	24FEB89	1	700	11,000	2,900	<500	.	.	10
	15JUN89		1,100	12,100	3,200	<500	.	.	<10
	09AUG89		1,100	10,600	3,200	<500	.	.	<10
6-43-45	06DEC89		1,000	14,500	2,500	<500	.	<10	<10
6-44-42	17FEB89		1,400	14,000	3,300	<500	.	.	<10
	15JUN89		1,300	15,700	3,300	<500	.	.	<10
	08AUG89		1,500	12,700	3,100	<500	.	.	<10
6-44-43B	20DEC89		7,000	29,600	4,300	<500	.	<10	<10
	20DEC89	1	7,200	29,700	4,300	<500	.	<10	15
6-44-64	12JAN89		55,000	35,200	11,500	<500	.	11	<10
6-45-42	16JAN89		6,900	36,000	5,400	<500	.	<10	<10
6-49-55A	22FEB89		94,700	112,000	10,800	<500	.	96	<10
	22FEB89	1	94,400	112,000	10,700	<500	.	82	<10

TABLE C.2. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number</u>	<u>Nitrate, <math>\mu\text{g/L}</math></u>	<u>Sulfate, <math>\mu\text{g/L}</math></u>	<u>Chloride, <math>\mu\text{g/L}</math></u>	<u>Fluoride, <math>\mu\text{g/L}</math></u>	<u>Low Level Fluoride, <math>\mu\text{g/L}</math></u>	<u>Cyanide, <math>\mu\text{g/L}</math></u>	<u>Filtered Chromium, <math>\mu\text{g/L}</math></u>
	22FEB89	2	94,400	112,000	10,700	<500	.	108	<10
	22FEB89	3	.	.	.	.	.	100	.
	22FEB89	4	.	.	.	.	.	92	.
	22FEB89	5	.	.	.	.	.	88	.
6-49-57	17JAN89		57,800	33,200	5,800	600	.	28	<10
	17JAN89	1	58,000	32,500	5,800	600	.	17	<10
	17JAN89	2	58,700	33,900	5,700	600	.	30	<10
	17JAN89	3	.	.	.	.	.	19	.
	17JAN89	4	.	.	.	.	.	22	.
	17JAN89	5	.	.	.	.	.	31	.
6-49-79	12JAN89		40,600	45,400	9,200	<500	.	<10	<10
6-50-53	17JAN89		625,000	401,000	34,400	<500	.	574	<10
	17JAN89	1	.	.	.	.	.	717	.
	17JAN89	2	.	.	.	.	.	483	.
	17JAN89	3	.	.	.	.	.	633	.
	17JAN89	4	.	.	.	.	.	641	.
	17JAN89	5	.	.	.	.	.	430	.
6-65-83	20JAN89		5,400	39,900	6,200	<500	.	.	19
6-67-86	13JAN89		3,000	36,200	4,700	<500	.	.	25
6-71-52	22FEB89		7,500	45,700	7,800	<500	.	.	<10
6-73-61	19JAN89		8,800	40,500	6,100	<500	.	.	11
6-77-36	20JAN89		56,700	54,200	18,800	600	.	.	<10
6-78-62	19JAN89		9,000	54,400	6,300	<500	.	.	81
6-81-58	16JAN89		2,700	15,900	1,500	<500	.	.	17
	03MAR89		2,900	16,000	1,400	<500	.	<10	14
	18SEP89		3,700	15,400	1,600	<500	.	.	13
	28NOV89		4,000	17,300	1,500	<500	165	<10	<10
6-83-47	16JAN89		6,000	49,100	5,400	<500	.	.	44
6-96-49	16JAN89		16,300	68,400	18,700	<500	.	.	59
6-97-43	16JAN89		17,700	58,100	9,600	<500	.	.	192
11-41-13C	30JAN89		7,900	17,400	6,500	<500	.	.	<10

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**TABLE C.3.** Analytical Results for Key Radiological Constituents and Nitrate

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239, 240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
1-B3-1	13FEB89 30MAY89 19OCT89	4,090 4,450	48,400 41,900 31,000	105.00 105.00	52.60 48.30	179.00 .	.	2.21 2.42	.	.	.	.
1-B4-1	13FEB89 30MAY89 19OCT89	42,900 16,100	13,900 15,300 15,000	51.60 60.20	21.60 24.50	108.00 .	.	1.40 1.45	0.82 7.29	-0.37 -1.66	.	.
1-B4-2	13JUN89 24OCT89	3,480 4,290	13,900 14,000	48.40 78.80	19.90 53.50	170.00 .	.	0.93 14.40	2.85 8.30	-1.88 0.13	.	.
1-B4-3	13JUN89 24OCT89	11,500 21,600	14,600 15,000	49.50 43.30	16.70 20.00	120.00 .	.	1.19 1.01	-1.86 12.70	-2.98 1.07	.	.
1-B4-4	13FEB89 30MAY89 19OCT89	2,390 2,850	12,900 13,200 14,500	55.50 62.20	29.10 25.40	112.00 .	.	1.28 0.77	5.76 3.73	-0.75 -1.99	.	.
1-B5-1	30MAY89 19OCT89	1,980 2,360	13,900 14,000	17.70 17.40	0.45 1.55	91.50 .	.	1.07 0.88	8.12 -3.31	1.24 3.97	.	.
1-B9-1	13FEB89 30MAY89 11OCT89 18OCT89	2,120 2,220	24,600 28,900 8.18 24,500	20.20 23.10	1.67 1.91	99.60 4.32 3.33	.	1.14 3.14 0.86	1.51 -9.72	0.19 3.48	.	.
1-D2-5	10FEB89 01JUN89 17OCT89	28,200 27,800	72,000 65,700 57,000	7.10 5.14	0.42 -0.06	0.51 .	.	1.43 1.40	0.81 1.89	0.00 -2.12	.	.
1-D5-12	10FEB89 16MAR89 01JUN89 17OCT89	.	122,000	.	.	-0.62	.	.	.	.	.	.
1-D8-3	10FEB89 01JUN89 19OCT89	53,300 35,200	94,300 104,000	94.70 90.60	45.20 44.60	.	.	2.39 1.69	1.96 1.21	-1.66 1.00	.	.
1-F5-1	09FEB89 01JUN89	4,230 56	69,500 <2,500	13.20 88.00	3.78 41.40	.	.	1.82 0.57	-3.10 10.90	4.10 7.01	.	.
1-F5-3	01JUN89 17OCT89	189 486	<2,500 <2,500	271.00 271.00	118.00 244.00	-0.69 .	.	0.47 0.16	-0.21 0.57	2.98 5.42	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
1-F5-4	09FEB89	.	73,300	.	.	-1.11	.	.	.	.	.	.
	17MAR89	.	.	.	.	.	.	.	.	.	.	.
	02JUN89	9,550	64,300	9.18	0.14	.	.	7.11	-3.03	5.26	.	.
	16OCT89	7,970	78,500	6.37	-0.01	.	.	6.68	-1.82	0.75	.	.
1-F5-6	09FEB89	.	<500	.	.	.	.	.	.	.	.	.
	02JUN89	1,110	3,700	10.80	1.69	-0.12	.	0.52	1.51	-2.83	.	.
	16OCT89	1,440	<2,500	7.32	2.23	.	.	0.44	-2.67	-0.33	.	.
1-F7-1	16MAR89	.	.	.	.	-1.78	.	.	.	.	.	.
	02JUN89	486	89,500	7.24	0.28	.	.	4.23	-2.84	4.30	.	.
	16OCT89	1,210	92,000	5.14	0.31	.	.	4.27	-0.53	1.32	.	.
1-F8-1	09FEB89	.	151,000	.	.	.	.	.	.	.	.	.
	03MAR89	5,290	152,000	29.30	-0.16	-2.72	.	143.00	-5.48	-2.41	.	.
	16OCT89	4,810	122,000	23.70	-0.22	2.00	.	91.00	3.02	-3.53	.	.
1-F8-2	17MAR89	.	.	.	.	1.84	.	.	.	.	.	.
	02JUN89	2,140	167,000	22.10	0.15	.	.	51.50	0.89	0.44	.	.
	16OCT89	3,640	150,000	12.20	0.12	.	.	42.20	-2.83	-3.01	.	.
1-H3-1	24MAY89	1,670	.	.	.	.	.	.	.	.	.	.
	24MAY89	.	23,300	7.32	.	0.13	1.61	2.39	.	.	.	.
	18OCT89	3,890	.	.	.	.	.	.	.	.	.	.
1-H3-2A	06JAN89	.	29,000	7.57	.	-0.65	2.75	2.51	.	.	.	.
	26MAY89	.	35,300	8.51	.	-0.37	4.08	3.68	.	.	.	.
	02AUG89	.	26,300	8.67	.	271.00	2.69	3.06	.	.	.	.
	11OCT89	.	18,100	5.57	.	3.54	1.96	2.08	.	.	.	.
1-H3-2B	26MAY89	.	28,200	6.78	.	-0.16	2.19	3.11	.	.	.	.
	26MAY89	.	28,100	4.77	.	.	5.52	.	.	.	.	.
1-H3-2C	01JUN89	.	4,600	0.22	.	-2.09	0.18	0.74	.	.	.	.
1-H4-3	09JAN89	.	191,000	95.70	.	1,100.00	51.10	53.20	.	.	.	.
	25MAY89	1,730	.	.	.	.	.	.	1.65	0.00	.	.
	25MAY89	.	524,000	250.00	.	3,650.00	133.00	71.70	.	.	.	.
	03AUG89	.	474,000	207.00	.	3,250.00	81.50	145.00	.	.	.	.
	29SEP89	.	242,000	133.00	.	.	87.10	.	.	.	.	.
	11OCT89	.	172,000	83.00	.	844.00	82.30	40.40	.	.	.	.
	11OCT89	.	.	176,000	85.00	.	.	830.00	.	64.60	52.30	.

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9 2 1 2 6 3 9 0 1 2 6

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	19OCT89	3,610							2.43	2.88		
	28NOV89	.	127,000	62.20	.	.	42.30	.	.	.	.	.
	27DEC89	.	158,000	69.30	.	.	61.10	.	.	.	.	.
1-H4-4	09JAN89	.	26,300	8.37	.	18.10	2.77	3.58	.	.	.	.
	25MAY89	498	9,700	.	.	.	.	.	-5.79	0.00	.	.
	25MAY89	.	10,400	6.86	.	1.11	3.82	1.67	.	.	.	.
	03AUG89	.	392,000	168.00	.	2,270.00	33.40	88.80	.	.	.	.
	11OCT89	.	368,000	202.00	.	2,440.00	73.50	64.10	.	.	.	.
	18OCT89	1,800	.	.	.	.	.	.	7.44	-3.23	.	.
	28NOV89	.	253,000	134.00	.	.	41.10	.	.	.	.	.
	27DEC89	.	185,000	131.00	.	.	74.90	.	.	.	.	.
1-H4-5	06JAN89	.	39,500	7.02	.	0.01	1.68	2.91	.	.	.	.
	06JAN89	.	40,600	5.93	.	0.24	2.26	2.79	.	.	.	.
	20JUN89	.	44,800	8.97	.	3.12	4.06	3.62	.	.	.	.
	11OCT89	.	39,000	.	.	.	.	.	.	.	.	.
	18OCT89	1,960	.	.	.	.	.	.	-2.43	-1.88	.	.
1-H4-6	09JAN89	.	39,100	7.49	.	-1.66	5.65	4.46	.	.	.	.
	24MAY89	5,060	.	.	.	.	.	.	-0.30	6.20	.	.
	24MAY89	.	36,700	4.43	.	-1.16	2.08	2.98	.	.	.	.
	04AUG89	.	38,000	6.97	.	-0.47	3.25	3.82	.	.	.	.
	04AUG89	.	38,000	7.60	.	0.68	2.15	5.91	.	.	.	.
	11OCT89	.	38,000	9.18	.	3.36	5.00	4.24	.	.	.	.
	18OCT89	5,280	.	.	.	.	.	.	4.54	0.47	.	.
1-H4-7	06JUN89	3,100	.	.	.	.	.	.	.	.	.	.
	06JUN89	.	56,800	3.18	.	-1.86	2.89	4.95	.	.	.	.
	18OCT89	4,680	.	.	.	.	.	.	.	.	.	.
	18OCT89	.	36,000	4.45	.	1.49	3.02	3.26	.	.	.	.
	30NOV89	.	35,300	6.37	.	.	3.74	.	.	.	.	.
1-H4-8	12MAY89	.	39,400	7.06	.	-1.27	2.12	3.97	.	.	.	.
	22MAY89	2,120	.	.	.	.	.	.	.	.	.	.
	18OCT89	4,580	.	.	.	.	.	.	.	.	.	.
1-H4-9	06JAN89	.	58,000	21.50	.	157.00	5.04	4.85	.	.	.	.
	15MAY89	1,360	.	69,300	27.60	.	235.00	6.31	6.18	.	.	.
	15MAY89	.	2,970	.	.	.	.	.	.	.	.	.
	18OCT89	.	68,500	26.40	.	.	7.12	.	.	.	.	.
	27DEC89	.	.	.	.	.	.	.	.	.	.	.
1-H4-10	18MAY89	429	.	.	.	.	.	.	.	.	.	.

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9 2 1 2 6 3 9 0 1 2 7

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	18MAY89	.	12,700	2.66	.	-0.81	0.80	0.41	.	.	.	.
	18OCT89	3,630	.	.	.	.	.	.	.	.	.	.
1-H4-11	12MAY89	.	32,000	61.10	.	88.90	4.62	5.26	.	.	.	.
	25MAY89	989	.	.	.	.	.	.	.	.	.	.
	18OCT89	1,700	.	.	.	.	.	.	.	.	.	.
1-H4-12A	06JAN89	.	29,100	10.90	.	34.60	6.28	4.50	.	.	.	.
	23MAY89	.	30,200	1.85	.	91.30	1.35	1.68	.	.	.	.
	02AUG89	.	82,000	32.60	.	-1.54	21.70	20.80	.	.	.	.
	11OCT89	.	59,000	16.10	.	154.00	11.10	7.07	.	.	.	.
1-H4-12B	06JAN89	.	39,000	10.40	.	58.40	5.22	4.30	.	.	.	.
	22MAY89	.	27,400	5.98	.	26.30	3.12	2.48	.	.	.	.
	02AUG89	.	49,000	33.30	.	87.40	6.60	5.60	.	.	.	.
1-H4-12C	06JAN89	.	6,400	3.92	.	-0.63	1.32	1.09	.	.	.	.
	22MAY89	.	6,400	2.73	.	0.20	0.90	2.19	.	.	.	.
	02AUG89	.	6,800	5.70	.	-0.57	0.50	1.06	.	.	.	.
	11OCT89	.	6,300	4.72	.	1.73	1.09	0.89	.	.	.	.
1-H4-13	23MAY89	.	15,800	48.70	.	3.62	1.01	1.43	.	.	.	.
	23MAY89	.	16,200	50.20	.	.	1.72	.	.	.	.	.
1-H4-14	18MAY89	1,050	.	.	.	.	.	.	.	.	.	.
	18MAY89	.	18,600	6.36	.	1.12	1.48	1.12	.	.	.	.
	17OCT89	.	21,700	5.93	.	0.80	3.16	1.72	.	.	.	.
	18OCT89	1,550	.	.	.	.	.	.	.	.	.	.
1-H4-15A	25MAY89	.	41,400	4.58	.	1.25	1.37	1.22	.	.	.	.
1-H4-15B	25MAY89	.	22,500	5.13	.	1.54	0.57	1.34	.	.	.	.
1-H4-16	23MAY89	641	.	.	.	.	.	.	.	.	.	.
	23MAY89	.	13,900	15.40	.	-0.20	2.18	1.04	.	.	.	.
	18OCT89	583	.	.	.	.	.	.	.	.	.	.
1-H4-17	23MAY89	3,610	.	.	.	1.01	2.83	4.17	.	.	.	.
	23MAY89	.	51,200	10.10	.	.	.	.	.	.	.	.
	18OCT89	4,170	.	.	.	.	.	.	.	.	.	.
1-H4-18	06JAN89	.	27,600	10.80	.	25.20	1.63	1.57	.	.	.	.
	23MAY89	1,400	.	.	.	.	.	.	.	.	.	.
	23MAY89	.	31,500	16.30	.	65.50	3.45	3.65	.	.	.	.
	02AUG89	.	27,000	10.40	.	22.70	4.02	3.27	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	11OCT89		23,500	9.05	.	20.10	3.42	2.11	.	.	.	.
	19OCT89	1,580	.	.	.	.	.	.	.	.	.	.
1-K-11	16FEB89		38,000									
	12JUN89	3,660	37,000	5.05	-0.24	-0.35			2.75	0.61	-4.13	.
	16OCT89	1,680	38,000	7.23	0.28	.			3.43	-2.31	-0.77	.
1-K-19	16FEB89		51,300	.	.	.			.	.	.	.
1-K-20	16FEB89	.	19,000	.	.	.	.	.	.	.	.	.
1-K-22	16FEB89		4,400									
	17OCT89	491	4,500	7.63	3.39	.	.	.	1.14	1.89	-2.83	.
1-K-27	14FEB89		3,000									
	13JUN89	52,600	7,700	29.80	-0.46	18.90	.		3.16	3.64	1.13	.
	13JUN89	53,700	.	.	.	.				5.68	2.36	.
	16OCT89		9,000	15.20	-0.12	.			5.89	.	.	.
	16OCT89	172,000	.	.	.	.				4.56	3.30	.
1-K-28	14FEB89		22,600									
	12JUN89	2,290	23,500	12.90	-0.44	2.85	.		4.41	-8.48	0.62	.
	12JUN89	2,290	.	.	.	.				1.03	4.72	.
	16OCT89		25,000	8.80	-0.09	.			4.29	.	.	.
	16OCT89	2,200	.	.	.	.				1.78	0.77	.
1-K-29	14FEB89		9,100									
	12JUN89	11,000	8,100	5.87	-0.45	-1.98	.		1.84	-3.79	-4.36	.
	12JUN89	11,200	.	.	.	.				-0.95	-0.82	.
	16OCT89		8,000	3.40	0.16	.			2.22	.	.	.
	16OCT89	8,530	.	.	.	.				0.00	-3.09	.
1-K-30	14FEB89		43,400									
	12JUN89	587,000	42,900	5.79	0.26	11.60	.		1.73	-0.20	-0.38	.
	12JUN89	570,000	.	.	.	.				3.52	2.61	.
	17OCT89		66,000	6.71	0.26	.			1.98	.	.	.
	17OCT89	882,000	.	.	.	.				-6.90	-0.25	.
1-N-2	09MAR89	95,600	30,700	4,180.00	2,550.00	.		0.51	0.30	57.00	0.66	.
	26JUL89	66,300	22,000	4,080.00	3,610.00	.		0.51	0.21	26.90	-0.47	.
	15AUG89		20,100	.	.	.				.	.	.
	21DEC89	54,200	9,300	3,610.00	1,840.00	.		0.31	0.15	2.39	-0.87	.

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9 2 1 2 6 3 9 0 1 2 9

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
1-N-3	09MAR89	47,100	23,400	2,820.00	2,640.00	.	1.19	0.82	24.00	-4.88	.	.
	26JUL89	34,100	13,500	1,250.00	1,090.00	.	0.94	0.30	18.90	2.35	.	.
	15AUG89	.	10,400	.	.	.	.	.	.	.	.	.
	29SEP89	23,100	7,500	1,010.00	629.00	.	1.36	0.28	11.30	-0.62	.	.
	08NOV89	22,600	7,100	1,220.00	541.00	.	0.52	0.81	6.07	3.25	.	.
1-N-4	09MAR89	88,900	18,600	40.90	9.25	.	1.00	0.76	32.70	-7.28	.	.
	26JUN89	35,000	7,700	39.00	7.92	.	0.54	0.28	25.40	1.12	.	.
	27JUN89	.	8,100	.	.	9.03	.	.	.	.	.	.
	15AUG89	.	5,100	.	.	.	.	.	.	.	.	.
	29SEP89	22,100	2,800	34.40	7.26	.	0.24	0.34	11.90	-1.30	.	.
	09OCT89	.	3,000	.	.	5.79	.	.	.	.	.	.
1-N-5	08NOV89	36,000	3,700	30.20	6.92	.	0.02	0.34	14.70	-1.37	.	.
	15JUN89	51,200	16,900	665.00	492.00	10.20	.	0.45	18.90	2.71	.	.
C 46 1-N-6	09JUN89	8,910	<2,500	97.10	40.80	2.26	.	0.56	17.20	-0.75	.	.
	09MAR89	93,100	30,900	1,080.00	1,040.00	.	-0.19	0.29	47.30	-6.14	.	.
1-N-14	08JUN89	.	18,000	.	.	10.80	.	.	.	.	.	0.047
	27JUL89	43,500	17,800	1,940.00	1,110.00	.	0.96	0.23	12.00	0.79	.	.
	15AUG89	.	11,800	.	.	.	.	.	.	.	.	.
	26SEP89	34,600	8,700	2,030.00	1,010.00	.	0.89	0.17	17.50	1.10	.	.
	26SEP89	34,900	8,800	1,840.00	1,110.00	.	0.39	0.18	13.70	1.18	.	.
	09OCT89	.	8,000	.	.	.	.	.	.	.	.	.
	14NOV89	36,200	8,300	2,140.00	1,090.00	.	0.13	0.79	11.10	0.69	.	.
	14NOV89	.	8,500	2,000.00	.	.	0.51	0.83	.	.	.	.
1-N-16	20JUN89	1,130	<2,500	12.90	-0.25	0.58	.	3.96	.	.	.	.
	20JUN89	.	<500	.	.	.	.	.	.	.	.	.
	18AUG89	.	<500	.	.	.	.	.	.	.	.	.
	28SEP89	.	<500	.	.	.	.	.	.	.	.	.
	13NOV89	3,010	<500	8.57	0.39	.	0.88	1.77	2.06	0.25	.	.
1-N-17	20JUN89	.	<500	.	.	.	.	.	.	.	.	.
	18AUG89	.	1,800	.	.	.	.	.	.	.	.	.
	26SEP89	.	3,800	.	.	.	.	.	.	.	.	.
	10NOV89	19,400	2,400	226.00	111.00	.	1.13	0.78	-3.10	0.62	.	.
1-N-18	20JUN89	8,660	.	1,200.00	415.00	5.04	.	0.53	-2.67	0.11	.	.
	20JUN89	.	<500	.	.	.	.	.	.	.	.	.
1-N-20	14JUN89	1,020	20,200	31.40	13.10	8.32	.	1.07	8.36	-4.19	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
1-N-21	17JUL89	.	24,100	.	.	.	.	.	.	.	.	.
	21AUG89	.	17,800	.	.	.	.	.	.	.	.	.
	28SEP89	.	11,000	.	.	.	.	.	.	.	.	.
	13NOV89	13,600	10,600	11.60	3.21	.	1.39	1.50	5.67	3.06	.	.
1-N-22	14JUN89	2,750	31,200	8.01	-0.39	2.56	.	4.59	-3.03	3.76	.	.
1-N-23	22AUG89	.	<500	.	.	.	.	.	.	.	.	.
	20SEP89	.	<500	.	.	.	.	.	.	.	.	.
	19OCT89	15,700	<2,500	8.22	1.15	.	.	0.00	1.82	4.51	.	.
	11DEC89	15,000	1,700	11.60	1.96	.	7.51	6.41	2.49	-1.66	.	.
1-N-24	21AUG89	.	3,700	.	.	.	.	.	.	.	.	.
	20SEP89	.	1,700	.	.	.	.	.	.	.	.	.
	09OCT89	174	4,500	37.70	11.70	.	.	4.23	1.70	-1.41	.	.
	06DEC89	368	3,700	17.40	4.55	.	2.03	1.02	0.61	-2.13	.	.
C 47 1-N-25	21AUG89	.	12,700	.	.	.	.	.	.	.	.	.
	20SEP89	.	5,200	.	.	.	.	.	.	.	.	.
	09OCT89	166	5,300	29.20	8.04	.	.	3.84	3.03	9.19	.	.
	06DEC89	200	15,300	11.10	-0.12	.	1.49	1.71	-4.45	1.25	.	.
1-N-26	22AUG89	.	28,100	.	.	.	.	.	.	.	.	.
	18SEP89	.	25,300	.	.	.	.	.	.	.	.	.
	12DEC89	585	11,600	8.84	-0.48	.	6.49	1.39	4.71	-2.52	.	.
1-N-27	06MAR89	40,200	9,100	393.00	325.00	.	0.20	0.56	33.40	0.75	.	.
	27JUN89	7,880	500	104.00	38.40	.	0.25	0.59	29.50	-2.25	.	.
	12DEC89	189,000	6,100	580.00	253.00	.	0.04	0.56	20.30	-5.71	.	.
1-N-28	08JUN89	8,530	<2,500	80.80	26.90	2.46	.	1.22	18.20	0.75	.	.
1-N-29	06MAR89	38,900	5,400	463.00	591.00	.	0.75	0.47	31.30	1.68	.	0.003
	27JUN89	.	<2,500	.	.	5.10	.	.	.	.	.	.
	27JUN89	4,890	2,200	2,970.00	1,750.00	.	1.68	0.59	24.20	-3.34	.	.
	29NOV89	67,200	6,700	2,540.00	1,670.00	.	1.19	0.60	11.70	3.17	.	.
1-N-31	06MAR89	27,200	2,600	51.60	36.60	.	0.39	0.31	10.60	6.36	.	.
	01AUG89	10,500	1,500	147.00	60.90	.	0.68	0.76	9.43	3.31	.	.
	28SEP89	87,400	2,400	137.00	56.40	.	1.01	0.40	8.67	0.12	.	.
	28SEP89	85,800	2,400	138.00	59.50	.	1.16	0.46	13.00	2.98	.	.
	01DEC89	218,000	4,900	130.00	50.60	.	0.65	0.36	18.10	0.82	.	.
1-N-32	06MAR89	67,800	7,100	55.30	11.20	.	1.28	0.58	20.20	-4.74	.	.
	07JUN89	.	<2,500	.	.	-0.38	.	.	.	.	.	.
	17JUL89	.	7,800	507	380.00	.	195.00	.	.	0.44	0.35	20.40

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	20SEP89 30NOV89	30,600 164,000	1,400 3,400	75.10 83.80	25.70 26.10	.	0.50 1.70	0.71 0.42	16.90 17.80	3.97 -0.50	.	.
1-N-33	06MAR89 07JUN89 14JUL89 14JUL89 21DEC89 21DEC89	57,200 2,600 11,500 11,300 170,000 163,000	6,300 1,960 2,130 5,600 5,500	332.00 420.00 470.00 380.00 395.00	285.00 232.00 220.00 209.00	6.73	0.45 0.57 0.59 1.10 0.41	0.64 0.78 0.88 0.68 0.51	26.20 12.70 13.90 27.40	-6.07 -1.63 -3.29 4.76	.	-0.051
1-N-36	07MAR89 07MAR89 07JUN89 27JUN89 19SEP89 01DEC89	43,600 4,600 3,400 6,440 60,600 209,000	4,800 294.00 .	313.00 120.00 388.00 408.00	173.00 65.50 183.00 224.00	.	0.23 0.44 0.79	0.37 0.36 .	16.40 8.88 21.30 21.90	-2.77 -0.77 -14.60 -3.45	.	.
1-N-37	07JUN89	8,460	<2,500	135.00	58.10	.	.	0.56	18.40	0.75	.	.
1-N-39	13NOV89 21DEC89 21DEC89	.	6,500 6,500	952.00 971.00	526.00 454.00	.	0.79 1.00	0.52 0.49	17.10	-3.97	.	.
1-N-41	08MAR89 27JUN89 19SEP89 29NOV89	66,600 13,100 7,280 7,650	22,700 4,800 1,000 1,000	31.00 15.00 9.44 11.20	-0.15 -0.01 -0.42 0.06	.	0.06 0.67 0.59 0.89	0.38 0.48 0.41 0.40	30.70 20.60 13.40 6.14	-2.00 0.00 4.88 -1.39	.	-0.0002
1-N-42	07MAR89 19JUL89 20SEP89 29NOV89	71,900 25,900 9,820 8,880	16,000 14,500 3,300 1,100	34.40 21.80 11.50 15.70	0.13 -0.27 0.08 0.22	.	0.84 2.49 1.65 0.26	0.55 0.66 0.72 0.38	51.50 22.60 25.20 12.10	-4.41 -1.88 3.31 5.89	0.0021	.
1-N-47	21AUG89 18SEP89 11DEC89	.	4,200 6,900 15,800	.	.	.	.	.	.	.	.	.
1-N-50	08JUN89	92,600	38,800	27.10	0.17	11.10	.	0.38	21.70	3.53	.	.
1-N-51	08JUN89	95,800	35,400	22.40	0.13	10.90	.	0.45	33.30	3.89	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, <math>\mu\text{g}/\text{L}</math></u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
1-N-52	08MAR89	80,800	17,200	26.30	0.11	.	0.87	0.53	34.70	1.99	.	.
	29JUN89	.	8,800	.	.	4.72	.	.	.	.	.	.
	29JUN89	17,300	9,100	16.20	0.07	.	0.79	0.86	15.50	-2.12	.	.
	20SEP89	16,000	7,700	15.90	0.18	.	2.19	0.77	9.70	5.01	.	.
	01DEC89	24,400	9,800	17.40	-0.18	.	1.12	0.68	12.90	-3.38	.	.
1-N-54	21JUN89	.	22,600	.	.	.	.	.	.	.	.	.
	15AUG89	.	15,200	.	.	.	.	.	.	.	.	.
	02OCT89	.	11,900	.	.	.	.	.	.	.	.	.
	01NOV89	19,700	9,500	314.00	171.00	.	0.53	0.45	15.90	1.88	.	.
1-N-55	21JUN89	.	21,400	.	.	.	.	.	.	.	.	.
	21JUN89	.	21,400	.	.	.	.	.	.	.	.	.
	15AUG89	.	10,200	.	.	.	.	.	.	.	.	.
	02OCT89	.	8,700	.	.	.	.	.	.	.	.	.
	01NOV89	19,700	93,000	64.20	44.10	.	1.11	0.73	8.32	-0.13	.	.
1-N-56	21JUN89	.	63,600	.	.	.	.	.	.	.	.	.
	15AUG89	.	8,100	.	.	.	.	.	.	.	.	.
	02OCT89	.	9,000	.	.	.	.	.	.	.	.	.
	01NOV89	31,100	8,400	691.00	364.00	.	-0.16	0.53	19.30	0.00	.	.
1-N-57	20JUN89	.	24,700	.	.	.	.	.	.	.	.	.
	16AUG89	.	10,400	.	.	.	.	.	.	.	.	.
	02OCT89	.	8,100	.	.	.	.	.	.	.	.	.
	02NOV89	21,800	8,800	39.10	18.50	.	0.41	0.91	7.31	-2.98	.	.
1-N-58	02MAR89	-147	3,500	4.05	0.78	.	1.67	2.21	-4.29	-3.90	.	.
	25JUL89	118	3,310	7.11	1.35	.	4.21	1.37	-2.84	2.12	.	.
	14AUG89	.	2,400	.	.	.	.	.	.	.	.	.
	18SEP89	39	2,800	3.04	0.30	.	0.46	2.40	6.07	4.38	.	.
	15NOV89	27	5,200	2.80	1.11	.	0.05	1.62	-6.90	2.13	.	.
1-N-59	01MAR89	-26	3,000	2.00	-0.29	.	0.60	0.84	0.78	-0.72	.	.
	01MAR89	.	3,100	3.01	.	.	0.29	1.19	.	.	.	.
	17JUL89	247	3,200	4.80	0.47	.	3.85	1.68	0.71	4.85	.	.
	14AUG89	.	3,000	.	.	.	.	.	.	.	.	.
	18SEP89	124	3,100	5.05	0.69	.	0.47	1.60	-4.55	-1.86	.	.
	16NOV89	153	4,000	4.15	0.04	.	0.46	0.82	4.10	-5.30	.	.
1-N-60	02MAR89	31	2,900	2.95	0.08	.	1.20	1.35	4.54	-3.18	.	.
	01AUG89	64	2,100	3.04	0.43	.	2.72	0.94	6.00	0.00	.	.
	01AUG89	51	2,100	11.70	0.36	.	1.74	0.83	-3.03	-6.01	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	14AUG89		1,900									
	18SEP89	100	2,800	6.11	0.33		5.53	3.01	0.71	1.54		
	16NOV89	39	3,500	11.70	0.20		1.61	2.65	4.55	-3.54		
	16NOV89		3,600									
1-N-61	02MAR89	34	1,800	1.92	-0.09		0.15	0.79	-7.64	2.61		
	28JUL89	73	3,000	4.51	0.46		0.36	1.09	0.38	-3.18		
	14AUG89		2,400									
	19SEP89	56	4,300	2.24	0.48		-0.16	1.89	2.48	-4.35		
	19SEP89	157	4,200	5.52	0.21		1.41	2.92	-3.03	1.30		
	16NOV89	27	1,600	5.11	0.78		-0.09	0.62	-8.73	-1.66		
1-N-66	08MAR89	52,400	8,600	36.00	0.57		-0.34	0.39	25.60	0.37		
	02AUG89	12,200	3,100	16.60	0.64		0.42	0.80	12.30	-1.99		
	16AUG89		1,600									
	29SEP89	27,700	2,400	31.40	2.18		1.08	0.59	13.10	5.89		
	08NOV89	52,400	3,000	28.90	1.67		0.45	0.65	4.86	-5.26		
1-N-67	08MAR89	77,300	87,900	39,000.00	23,400.00		-0.01	0.37	36.40	-3.37		
	02AUG89	71,800	19,200	25,500.00	14,100.00		0.18	0.23	22.00	1.01		
	16AUG89		23,500									
	02OCT89	45,300	12,100	25,700.00	13,000.00		0.38	0.33	11.90	-1.50		
	08NOV89	42,600	10,300	24,100.00	11,600.00		0.01	0.21	6.98	0.69		
1-N-69	08MAR89	85,100	30,300	18.40	0.67		-0.27	0.31	28.10	5.66		
	02AUG89	92,700	29,300	19.40	0.16		0.73	0.19	24.70	-8.28		
	16AUG89		28,000									
	02OCT89	75,100	24,500	22.10	0.84		0.10	0.44	19.30	-4.82		
	08NOV89	78,400	22,900	19.30	0.06		0.47	0.20	23.10	-0.48		
1-N-70	08MAR89	120,000	28,800	47.40	0.09		-0.29	0.50	51.00	4.63		
	18JUL89		12,100									
	18JUL89	47,900	12,600	29.10	-0.48		0.04	0.49	20.50	-6.33		
	29SEP89	37,200	9,100	18.10	-0.35		0.59	0.32	14.90	-7.82		
	29NOV89	32,500	10,200	15.40	0.01	4.69	0.42	0.32	24.80	3.97	0.0036	
2-E13-5	30JAN89	10	.	5.95	.	.	.	.	.	.	.	
2-E13-8	30JAN89			7.59								
	02JUN89	-26	18,700	.	0.38	1.30	.	2.51	2.48	0.75		
	02JUN89		.	8.50	.	.	.	3.02	4.97	.	0.008	
2-E13-14	30JAN89		.	3.73	.	.	.	.	.	.	.	
2-E13-19	30JAN89		.	4.38	.	4.70	.	.	.	.	.	
	08SEP89											

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E16-2	10JAN89	1,600	<2,500	13.60	-0.13	.	6.41	.	-0.61	-0.63	.	.
	10FEB89	6,640	<2,500	19.70	.	.	4.75	.	-0.81	1.50	.	.
	02MAR89	155	<2,500	8.80	.	.	6.96	.	-1.62	0.00	.	.
	19OCT89	586	.	10.90	-0.09	.	0.99	.	1.03	4.34	.	.
	14DEC89	470	1,200	12.40	0.13	4.60	3.69	1.05	-5.29	1.41	-0.0019	.
2-E17-1	26JAN89	5,360,000	212,000	28.00	3.18	.	3.33	.	-7.84	2.41	.	6.420
	19JUN89	3,300,000	151,000	26.20	.	.	1.05	2.05	.	.	.	.
	19JUN89	3,410,000	.	24.00	3.39	.	3.19	.	6.07	-0.38	.	.
	15AUG89	3,370,000	147,000	30.00	.	.	2.11	2.15	.	.	.	.
2-E17-2	09JAN89	28,100	67,200	68.20	2.43	.	6.78	7.22	20.60	-2.83	.	.
	10FEB89	28,400	39,700	42.50	.	.	5.38	.	.	.	.	.
	07MAR89	26,700	76,800	63.40	.	.	3.56	.	.	.	.	.
	22MAR89	.	.	.	.	.	.	.	.	.	.	0.996
	23AUG89	34,400	111,000	52.40	2.06	.	4.41	7.78	7.08	7.51	.	0.730
	03OCT89	43,200	115,000	104.00	2.05	.	12.10	9.38	13.20	1.12	.	.
2-E17-5	09JAN89	187,000	126,000	394.00	4.21	.	3.22	5.00	24.40	1.41	.	.
	10FEB89	146,000	98,400	273.00	.	.	3.98	4.90	18.80	-4.59	.	.
	06MAR89	134,000	89,200	250.00	.	.	3.39	5.88	21.00	-2.61	.	.
	22MAR89	.	.	.	.	.	.	.	.	.	.	2.240
	16MAY89	125,000	97,400	293.00	3.36	199.00	4.36	.	25.80	-5.96	.	13.200
	22JUN89	118,000	82,600	134.00	.	.	4.31	.	16.10	-3.89	.	.
	21SEP89	1,230,000	76,000	46.70	.	.	2.18	.	5.78	-2.73	.	.
	03OCT89	.	.	.	.	.	.	.	.	.	.	1.990
	03OCT89	1,260,000	74,000	50.70	2.61	.	4.66	4.27	2.67	-0.66	.	.
2-E17-6	26JAN89	182	<2,500	15.00	.	.	.	.	.	.	.	-0.059
	16MAY89	.	3,100	8.07	.	.	0.27	.	.	.	.	.
	16MAY89	309	<2,500	4.87	.	.	.	.	.	.	.	.
	21AUG89	.	115,000	123.00	.	.	4.09	.	.	.	.	.
	25SEP89	.	82,000	37.90	.	.	1.15	.	.	.	.	.
2-E17-8	26JAN89	3,420,000	134,000	25.10	2.92	.	.	.	1.23	1.13	.	.
	22MAR89	.	.	.	.	.	.	.	.	.	.	5.010
2-E17-9	06JAN89	4,650,000	132,000	33.20	.	.	1.23	-217.00	5.48	5.77	.	.
	09JAN89	4,590,000	130,000	29.00	2.37	.	2.82	2.41	1.84	-0.88	.	.
	10FEB89	5,200,000	137,000	29.30	.	.	2.02	3.17	3.59	-2.47	.	.
	07MAR89	4,830,000	136,000	35.30	.	.	3.83	3.83	2.46	1.77	.	.
	16MAY89	3,980,000	121,000	28.70	4.02	92.20	1.48	.	4.16	1.41	.	16.000
	22JUN89	3,950,000	123,000	27.50	.	.	2.05	.	5.46	-3.01	.	.
	28SEP89	3,710,000	109,000	20.90	.	.	2.85	.	-1.89	-0.94	.	.
	03OCT89	3,550,000	104,000	18.30	3.34	.	1.40	2.72	7.24	-0.62	.	.

C.15

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium .90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E17-12	09JAN89	982,000	30,400	63.10	-0.14	.	2.98	3.14	9.23	1.43	-0.0002	.
	26JAN89	.	.	.	.	.	.	.	.	.	.	1.650
	09FEB89	1,100,000	28,000	48.60	0.68	.	2.88	3.12	4.13	4.10	-0.0002	.
	06MAR89	1,500,000	28,100	48.30	0.06	.	3.85	3.73	10.60	3.53	-0.0032	.
2-E17-13	09JAN89	866,000	38,500	66.10	0.27	.	2.57	3.25	-0.41	-1.12	0.0021	.
	26JAN89	.	.	.	.	.	.	.	.	.	.	2.040
	09FEB89	2,450,000	41,200	56.90	-0.33	.	2.46	3.28	7.15	-1.01	-0.0002	.
	06MAR89	3,340,000	42,800	71.70	0.70	.	6.42	3.72	4.24	-0.38	-0.0002	.
	03OCT89	932,000	34,000	18.30	0.64	.	3.53	4.32	1.96	-2.87	0.0017	1.590
2-E17-14	30NOV89	1,060,000	28,800	15.30	0.08	.	2.59	2.90	5.67	4.95	0.0083	1.330
	15MAY89	1,920,000	257,000	289.00	28.10	599.00	16.50	.	40.90	0.94	.	14.000
	26JUN89	2,570,000	284,000	257.00	.	.	3.95	.	54.40	5.30	.	.
	26JUN89	2,700,000	300,000	203.00	.	.	6.01	.	39.80	-2.65	.	.
	27SEP89	264,000	165,000	126.00	.	.	3.62	.	19.80	-2.86	.	.
2-E17-15	17MAY89	.	287,000	836.00	.	.	2.89	.	.	.	.	.
	17MAY89	.	288,000	845.00	.	.	3.81	.	.	.	.	.
	27JUL89	236,000	242,000	699.00	.	.	3.28	.	23.10	-2.98	.	.
	21SEP89	1,300,000	354,000	456.00	.	.	6.18	.	43.70	4.47	.	.
2-E17-16	15MAY89	54,500	56,700	21.20	3.62	14.10	5.26	.	18.90	5.63	.	2.030
	26JUN89	42,300	24,500	52.10	.	.	3.96	.	-2.27	3.53	.	.
	25SEP89	27,400	32,000	20.00	.	.	4.07	.	22.40	5.13	.	.
2-E17-17	12MAY89	334,000	67,600	152.00	-0.16	164.00	3.36	.	10.80	-3.60	.	8.220
	23JUN89	215,000	65,900	112.00	.	.	2.77	.	9.50	-1.13	.	.
	21SEP89	201,000	53,000	93.80	.	.	5.24	.	13.00	-0.59	.	.
2-E17-18	19MAY89	41,100	4,900	4.95	0.28	2.25	2.91	.	1.78	-0.66	.	3.600
	23JUN89	38,600	6,200	7.62	.	.	3.66	.	-0.41	4.47	.	.
	27SEP89	36,400	11,100	9.31	.	.	1.17	.	4.54	-0.12	.	.
	27SEP89	35,600	10,700	8.74	.	.	2.79	.	4.09	-6.29	.	.
2-E17-19	15FEB89	261,000	316,000	1,150.00	.	.	4.91	4.55	.	.	.	.
	14JUL89	2,560,000	88,800	18.70	.	.	4.50	3.40	.	.	.	.
	14AUG89	2,620,000	91,000	19.80	.	.	5.25	3.04	.	.	.	.
	14AUG89	.	91,000	13.20	.	.	2.07	3.90	.	.	.	.
2-E17-20	15FEB89	4,600,000	225,000	28.40	.	.	2.72	3.76	.	.	.	.
	16JUN89	4,590,000	228,000	36.60	.	.	2.81	3.38	.	.	.	.
	16JUN89	.	228,000	47.30	.	.	3.10	3.65	.	.	.	.
	15AUG89	4,210,000	217,000	60.50	.	.	3.37	3.75	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E18-1	15FEB89	-56	11,400	6.85	.	.	4.87	.	.	.	.	.
	26MAY89	.	12,000	6.58	.	.	5.53	.	.	.	.	.
	08AUG89	-1	12,500	7.46	.	.	5.53	.	.	.	.	.
	31OCT89	86	12,200	8.50	0.43	.	4.52	4.56	0.76	1.18	0.0031	.
2-E18-2	16FEB89	.	<500	5.46	.	.	1.72	.	.	.	.	.
	16FEB89	.	.	1.78	.	.	1.20	.	.	.	.	.
	01JUN89	.	600	4.70	.	.	3.01	.	.	.	.	.
	11AUG89	35	600	9.44	.	.	2.20	.	.	.	.	.
	27NOV89	.	.	4.71	.	.	1.32	.	.	.	.	.
2-E18-3	16FEB89	.	<500	5.12	.	.	2.42	.	.	.	.	.
	01JUN89	.	500	6.81	.	.	0.93	.	.	.	.	.
	01JUN89	.	<500	5.36	.	.	1.10	.	.	.	.	.
	08AUG89	-57	<500	10.60	.	.	0.85	.	.	.	.	.
	27NOV89	.	600	4.71	.	.	2.81	.	.	.	.	.
	27NOV89	.	500	5.95	.	.	2.28	.	.	.	.	.
C .53	2-E18-4	15FEB89	.	800	5.85	.	0.88	.	.	.	.	.
	26MAY89	.	1,000	6.08	.	.	2.33	.	.	.	.	.
	08AUG89	-48	<500	3.37	.	.	1.88	.	.	.	.	.
	08AUG89	.	570	6.64	.	.	3.49	.	.	.	.	.
	21NOV89	.	<500	4.92	.	.	3.77	.	.	.	.	.
2-E24-1	11JAN89	1,930,000	89,800	43.40	5.36	.	.	.	2.27	-4.35	.	.
	23FEB89	2,010,000	95,300	26.20	.	.	.	.	.	.	.	.
	07MAR89	1,950,000	99,600	31.80	.	.	.	.	.	.	.	.
	24AUG89	2,730,000	169,000	36.70	9.15	.	.	.	-4.55	-3.97	.	.
	04OCT89	.	.	.	.	.	3.28	.	.	.	.	.
	04OCT89	2,880,000	162,000	38.10	.	.	.	.	4.76	-2.61	.	.
2-E24-2	27JAN89	1,650,000	73,900	35.30	2.93	.	2.41	.	5.93	0.63	.	.
	13FEB89	1,370,000	69,800	42.60	.	.	3.26	3.17	.	.	.	.
	22JUN89	.	.	.	.	.	.	2.43	.	.	.	.
	22JUN89	1,980,000	109,000	20.80	.	.	3.10	2.36	.	.	.	.
	22JUN89	2,010,000	111,000	16.10	3.01	.	2.13	.	5.67	-2.12	.	.
	14AUG89	2,560,000	105,000	16.80	.	.	2.55	3.05	.	.	.	.
2-E24-4	27JAN89	8,710	4,400	6.42	-0.10	.	.	.	2.05	-2.39	.	.
2-E24-7	01JUN89	1,320,000	24,900	.	.	.	.	.	.	.	.	1.460
2-E24-8	27JAN89	14,300	4,200	8.71	.	.	.	.	-0.20	1.64	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E24-11	09JAN89	4,310,000	127,000	39.00	1.27	.	.	.	4.58	0.48	.	.
	10FEB89	.	.	35.40	.	.	.	.	.	.	.	.
	07MAR89	.	.	31.00	.	.	.	.	.	.	.	.
	24AUG89	2,960,000	126,000	15.10	0.95	.	.	.	0.62	-1.12	.	.
2-E24-12	03OCT89	2,680,000	98,500	15.70	1.00	.	.	.	3.56	1.77	.	.
	11JAN89	50,700	93,900	167.00	18.50	.	.	.	9.92	4.22	.	.
	23FEB89	48,400	87,400	105.00	.	.	.	.	0.59	-2.77	.	.
	07MAR89	45,000	89,400	141.00	.	.	.	.	4.80	-0.55	.	.
2-E24-13	07FEB89	.	4,300	5.71	.	.	.	.	.	.	.	.
	08JUN89	6,310	.	.	0.62	.	.	.	8.69	0.00	.	2.220
	09JUN89	.	.	9.00	.	.	.	.	.	.	.	.
2-E24-16	14FEB89	3,050,000	113,000	35.20	.	.	5.57	3.44	.	.	.	.
	14FEB89	.	113,000	31.00	.	.	1.54	3.48	.	.	.	.
	19JUN89	2,660,000	108,000	46.30	.	.	2.82	3.50	.	.	.	.
	14AUG89	2,580,000	114,000	37.40	.	.	3.06	3.00	.	.	.	.
2-E24-17	13FEB89	2,990,000	107,000	30.10	.	.	2.73	2.96	.	.	.	.
	19JUN89	2,490,000	97,300	41.30	.	.	3.62	2.72	.	.	.	.
	10AUG89	2,350,000	104,000	25.80	.	.	1.77	2.67	.	.	.	.
2-E24-18	14FEB89	1,430,000	57,300	18.10	.	.	3.75	3.28	.	.	.	.
	19JUN89	1,370,000	58,100	15.00	.	.	1.90	3.35	.	.	.	.
	11AUG89	1,430,000	59,000	17.40	.	.	2.45	3.37	.	.	.	.
2-E25-2	22MAR89	9,650	<2,500	8.71	.	0.07	.	.	0.38	1.77	.	.
	01JUN89	.	.	.	.	.	.	.	.	.	.	.
2-E25-3	08FEB89	.	<2,500	4.45	.	.	.	.	.	.	.	.
	02JUN89	3,940	<2,500	0.42	.	.	.	.	.	.	.	1.310
	02JUN89	.	.	7.53	.	.	.	.	.	.	.	.
	01SEP89	.	.	3.80	.	.	.	.	.	.	.	.
2-E25-6	10JAN89	6,560	.	3.65	0.21	.	1.73	.	-0.19	-2.12	.	.
	30JAN89	.	<2,500	.	.	.	.	.	.	.	.	.
	08FEB89	5,340	.	4.87	.	.	2.35	.	.	.	.	.
	02MAR89	8,620	.	4.98	.	.	2.78	.	.	.	.	.
	05OCT89	5,060	3,500	8.18	0.28	.	3.55	.	2.27	0.00	.	.
2-E25-9	05JAN89	.	.	4.63	.	.	0.36	.	.	.	.	.
	10JAN89	2,840	.	3.98	-0.06	.	1.63	2.61	2.07	0.12	.	.
	30JAN89	.	<2,500	.	.	.	.	.	.	.	.	.

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E25-11	08FEB89	.	.	3.05	.	.	1.60	.	.	.	.	.
	02MAR89	.	.	5.74	.	.	-0.66	.	.	.	.	.
	05OCT89	2,600	<2,500	5.56	0.18	.	3.43	1.58	-0.36	0.00	.	.
	09JAN89	657,000	47,300	15.70	-0.34	.	3.19	.	-3.02	0.00	.	.
	10FEB89	615,000	45,600	10.50	.	.	0.02	.	-2.67	-3.64	.	.
	06MAR89	538,000	39,400	12.00	.	.	1.18	.	-6.73	-0.13	.	.
2-E25-13	23AUG89	344,000	32,500	14.60	-0.04	.	0.14	.	3.44	6.76	.	.
	03OCT89	381,000	36,000	8.88	0.08	.	1.52	.	-6.00	-9.19	.	.
	14DEC89	471,000	43,300	10.80	-0.11	7.62	0.99	0.95	3.46	0.24	0.0016	.
	10FEB89	.	237,000	12.40	.	.	.	.	.	.	.	.
	10JAN89	397,000	24,300	10.20	-0.07	.	0.80	.	3.41	-6.72	.	.
	10FEB89	538,000	38,900	15.20	.	.	9.00	.	.	.	.	.
2-E25-17	02MAR89	555,000	41,300	10.30	.	.	4.48	.	.	.	.	.
	06OCT89	418,000	35,000	11.30	0.26	.	5.89	.	-3.31	1.37	.	.
	01FEB89	254,000	28,700	9.05	-0.20	.	2.18	.	6.87	7.64	.	.
	28FEB89	.	29,700	6.83	.	.	1.11	.	.	.	.	.
	23JUN89	.	88,700	9.33	.	.	0.57	.	.	.	.	.
	30AUG89	.	87,000	8.89	.	.	0.72	.	.	.	.	.
2-E25-19	01FEB89	966,000	68,000	9.18	-0.56	.	-0.40	.	1.45	2.98	.	.
2-E25-20	01FEB89	1,380,000	186,000	16.90	-0.60	.	1.32	.	3.02	-0.77	.	.
	28FEB89	.	195,000	13.30	.	.	1.57	.	.	.	.	.
	21JUN89	.	224,000	16.40	.	.	2.36	.	.	.	.	.
	31AUG89	.	235,000	16.30	.	.	2.19	.	.	.	.	.
2-E25-21	01FEB89	2,940	6,270	6.33	-0.16	.	1.03	.	-0.76	2.83	.	.
2-E25-22	01FEB89	5,240	4,800	7.35	-0.14	.	2.21	.	0.00	-2.83	.	.
	28FEB89	.	3,800	5.17	.	.	1.15	.	.	.	.	.
	18AUG89	.	3,300	6.67	.	.	0.86	.	.	.	.	.
	30AUG89	.	3,100	4.22	.	.	1.10	.	.	.	.	.
	14DEC89	10,100	3,800	9.94	0.05	7.82	1.72	0.83	-0.58	1.19	-0.0002	.
2-E25-23	01FEB89	200	<2,500	8.67	0.33	.	0.30	.	1.78	-6.18	.	.
2-E25-24	01FEB89	211	<2,500	7.92	-0.15	.	1.15	.	-1.63	-0.76	.	.
	28FEB89	.	1,100	7.99	.	.	-0.19	.	.	.	.	.
	21JUN89	.	1,300	8.44	.	.	0.40	.	.	.	.	.
	30AUG89	.	1,200	7.00	.	.	1.00	.	.	.	.	.
	20DEC89	453	1,600	9.40	-0.44	4.88	1.36	0.71	0.82	-0.76	0.0016	.

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TABLE C.3. (contd)

Well Name	Collection Date	Tritium, pCi/L	Nitrate, µg/L	Gross Beta, pCi/L	Strontium 90, pCi/L	Technetium 99, pCi/L	Gross Alpha, pCi/L	Uranium (total), pCi/L	Cobalt 60, pCi/L	Cesium 137, pCi/L	Plutonium 239,240, pCi/L	Iodine 129, pCi/L
2-E25-25	03JAN89	442	700	5.69	.	.	0.69	.	.	.	.	.
	03JAN89	.	.	.	.	0.10	.	.	.	.	.	.
	28FEB89	.	700	3.59	.	.	0.20	.	.	.	.	.
	28FEB89	.	.	.	.	0.79	.	.	.	.	.	.
	21JUN89	.	800	8.26	.	.	0.08	.	.	.	.	.
	30AUG89	.	900	6.73	.	.	1.26	.	.	.	.	.
	13DEC89	.	900	5.29	.	.	0.78	.	.	.	.	.
2-E25-26	28FEB89	.	1,400	1.84	.	.	1.16	.	.	.	.	.
	12JUL89	.	1,600	3.73	.	.	0.44	.	.	.	.	.
	11AUG89	3,590	1,500	8.34	.	.	1.12	0.98	.	.	.	.
	29AUG89	.	1,400	5.16	.	.	0.67	.	.	.	.	.
	01NOV89	2,730	1,100	3.02	-0.25	.	1.14	1.04	-0.38	2.00	0.0043	.
2-E25-27	28FEB89	.	2,200	2.12	.	.	-0.10	.	.	.	.	.
	12JUL89	.	2,270	4.84	.	.	0.80	.	.	.	.	.
	31AUG89	.	2,200	9.51	.	.	-0.03	.	.	.	.	.
2-E25-28	24FEB89	.	900	0.63	.	.	0.89	.	.	.	.	.
	20JUL89	.	996	10.50	.	.	1.36	.	.	.	.	.
	29AUG89	.	1,000	3.51	.	.	-0.10	.	.	.	.	.
	29AUG89	.	900	.	.	.	.	.	.	.	.	.
	27OCT89	1,350	1,600	14.10	-0.14	.	1.06	0.93	-3.46	-4.52	0.0017	.
2-E25-29P	03JAN89	36,700	6,800	3.93	.	.	1.12	.	.	.	.	.
	03JAN89	.	8,800	4.80	.	0.73	.	.	.	.	.	.
	27FEB89	.	.	.	.	1.14	.	1.50	.	.	.	.
	27FEB89	.	.	.	.	.	.	.	.	.	.	.
	14JUL89	85,700	12,900	3.44	.	.	1.44	.	-2.83	3.76	.	.
	30AUG89	.	9,100	3.00	.	.	1.39	.	.	.	.	.
	12DEC89	.	7,100	4.84	.	.	2.31	.	.	.	.	.
	12DEC89	.	7,100	6.23	.	.	0.42	.	.	.	.	.
2-E25-30P	27FEB89	.	3,600	5.19	.	.	1.88	.	.	.	.	.
	27FEB89	.	3,500	6.40	.	.	-0.16	.	.	.	.	.
	18JUL89	.	8,400	9.01	.	.	1.47	.	.	.	.	.
	29AUG89	.	8,700	7.92	.	.	0.49	.	.	.	.	.
2-E25-31	03JAN89	18,600	7,100	5.56	.	.	0.09	.	.	.	.	.
	03JAN89	16,600	7,100	6.78	.	.	0.81	.	.	.	.	.
	03JAN89	.	.	.	.	2.44	.	.	.	.	.	.
	27FEB89	.	8,900	5.30	.	.	0.64	.	.	.	.	.
	27FEB89	.	.	.	.	0.32	.	.	.	.	.	.
	14JUL89	19,100	11,100	5.95	.	.	2.43	.	-0.71	4.97	.	.
	30AUG89	.	22,400	2.81	.	.	1.54	.	.	.	.	.
	12DEC89	.	.	20,600	6.35	.	.	.	.	0.05	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, μg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E25-32P	04JAN89	670	800	6.77	.	.	1.41	.	.	.	.	.
	04JAN89	.	.	.	.	1.99	.	.	.	.	.	.
	24FEB89	.	700	3.00	.	.	1.47	.	.	.	.	.
	24FEB89	.	.	.	.	0.54	.	.	.	.	.	.
	13JUL89	.	1,270	10.20	.	.	0.77	.	.	.	.	.
	13JUL89	.	1,020	23.00	.	.	1.09	.	.	.	.	.
	29AUG89	.	800	6.63	.	.	0.51	.	.	.	.	.
	31OCT89	1,040	1,100	2.62	-0.19	.	0.21	0.68	-2.03	3.51	-0.0002	.
	12DEC89	.	700	5.67	.	.	1.20	.	.	.	.	.
2-E25-33	31JAN89	19,800	8,600	4.73	.	.	2.68	.	.	.	.	.
	31JAN89	.	.	.	.	0.70	.	.	.	.	.	.
	02MAR89	.	11,900	4.89	.	.	1.78	.	.	.	.	.
	02MAR89	.	.	.	.	0.10	.	.	.	.	.	.
	27JUL89	.	7,800	6.88	.	.	1.48	.	.	.	.	.
	31AUG89	.	7,400	4.33	.	.	2.39	.	.	.	.	.
	12DEC89	.	7,000	2.14	.	.	2.46	.	.	.	.	.
2-E25-34	27FEB89	922	1,100	2.70	.	.	1.09	.	.	.	.	.
	27FEB89	989	.	1.69	.	.	0.64	.	.	.	.	.
	17JUL89	1,410	1,090	3.97	.	.	0.64	.	.	.	.	.
	30AUG89	1,520	1,200	5.48	.	.	0.62	.	.	.	.	.
	31OCT89	1,570	1,200	4.66	-0.53	.	1.98	0.83	-7.05	-2.73	-0.0002	.
2-E25-35	27FEB89	69,900	7,800	5.37	.	.	3.67	.	.	.	.	.
	17JUL89	51,500	5,960	3.37	.	.	3.66	.	.	.	.	.
	17JUL89	60,800	6,830	7.51	.	.	2.05	.	.	.	.	.
	30AUG89	62,400	6,300	6.89	.	.	2.78	.	.	.	.	.
	30OCT89	60,300	6,800	9.38	0.00	.	1.91	2.56	-0.35	-0.66	0.0125	.
2-E25-36	14FEB89	5,260	3,400	6.89	.	.	1.14	0.93	.	.	.	.
	19JUN89	4,720	5,300	5.51	.	.	0.79	1.40	.	.	.	.
	24OCT89	5,360	6,200	7.04	.	.	0.84	0.98	.	.	.	.
2-E25-37	21DEC89	.	2,000	7.19	.	.	1.41	.	.	.	.	.
2-E25-38	20OCT89	.	1,900	4.97	.	.	1.22	.	.	.	.	.
2-E26-1	06JUN89	12,700	<2,500	.	.	.	.	.	.	.	.	0.399
2-E26-2	30JAN89	3,370	<2,500	8.02	.	.	.	.	.	.	.	.
	02JUN89	.	.	.	0.33	.	.	.	.	.	.	0.978
	02JUN89	2,200	<2,500	4.53	.	.	.	.	.	.	.	.
	01SEP89	1,600	<2,500	4.48	.	.	.	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Srtronium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E26-4	30JAN89 02JUN89 02JUN89 01SEP89	16,400 . . 30,900 21,400	<2,500 . . <2,500 <2,500	5.77 . . 8.20 4.89	. 0.28 . . . .	. . . . . . .	. . . . . . .	. . . . . . .	. . . . . . .	. . . . . . .	. 1.160 . . . . . .	
2-E26-6	27JAN89	1,300	<2,500	3.79	-0.11	. . .	2.44	. . .	1.62	2.63	. . .	. . .
2-E26-8	17MAR89 02JUN89 01SEP89	-29 . . -48	<2,500 . . <2,500	. 9.67 . .	-0.14 -0.31	. . .	0.48	. . . . .	. . . . .	. . . . .	. -0.030 . . . .	
2-E27-5	22MAR89	. . .	. <2,500	7.79 4.79	. . .	. . .	. 1.59	. . .	-2.02	-1.13	. . .	. . .
2-E27-7	22MAR89	. . .	<2,500	4.79	. . .	. . .	1.59	. . .	. . .	. . .	. . .	. . .
C. 88	2-E27-8	13MAR89 27JUL89 08SEP89	11,500 12,200 12,300	7,200 5.68 7,600	5.74 -0.29 7.59	0.06 -0.29 0.22	-2.51 -0.49 0.77	0.85 1.48 2.13	1.89 2.52 2.26	2.04 0.20 4.97	2.01 -3.26 2.11	. . . . .
	2-E27-9	13MAR89 13MAR89 27JUL89 06SEP89	12,800 7,400 14,200 13,500	7,400 4.74 8,200 7,600	6.21 4.74 8.22 6.74	-0.02 . . -0.08 0.14	-0.22 1.41 0.03 1.10	3.18 1.41 0.80 3.23	1.90 1.74 1.74 2.79	-0.20 -9.42 3.40 3.40	1.38 0.44 -3.89 -3.89	. . . . . . .
	2-E27-10	13MAR89 21JUL89 06SEP89	7,960 7,700 7,220	3,300 3,150 2,900	5.39 7.19 5.98	0.51 -0.18 0.15	-1.67 0.93 2.05	1.41 2.41 2.57	2.01 2.31 1.90	8.66 -8.50 6.19	3.23 5.30 0.37	. . . . .
	2-E28-7	31JAN89 08JUN89 08JUN89 08SEP89	. 6,920 . . . .	184.00 7,100 119.00 150.00	99.30 . . 61.00 113.00	. 61.40 . . . .	1.29 0.97 3.17	2.88 1.84 3.38	2.35 4.04 6.00	1.32 1.88 2.11	0.0350 0.0146 0.0055	0.828 . . . .
2-E28-9	31JAN89 25AUG89	. . .	. . .	105.00 11.10	. . .	. . .	9.11 9.38	10.80 9.86	. . .	. . .	. . .	. . .
2-E28-12	10JAN89 07FEB89 06MAR89 23AUG89 05OCT89	96,900 134,000 125,000 70,400 94,400	. . . . . . . . .	17.60 15.00 22.50 45.40 18.70	. . . . . . . . .	. . . . . . . . .	. . . . . . . . .	. . . . . . . . .	-1.65 0.21 1.96 4.13 -6.05	-3.60 8.19 6.73 8.28 -0.44	. . . . . . . . .	
2-E28-13	27JAN89	5,880	. . .	6.22	. . .	. . .	. . .	. . .	-1.78	0.55	. . .	. . .

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, <math>\mu\text{g}/\text{L}</math></u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E28-16	17MAR89	.	.	2.80	.	.	1.25	7.85	.	.	.	.
2-E28-17	27JAN89 25AUG89	.	.	.	.	.	11.40 16.00	8.96 15.30	.	.	.	.
2-E28-18	07FEB89 07MAR89	285,000 300,000	42,600 42,500	18.10 12.90	.	.	23.50 14.40	32.20 15.30	-3.10 3.53	1.86 -1.56	.	.
2-E28-19	27JAN89	.	.	12.00	.	.	10.30	10.40	.	.	.	.
2-E28-21	10JAN89 07FEB89 06MAR89	175,000 189,000 209,000	41,000 43,600 41,900	10.00 7.34 8.51	-0.02	.	26.50 17.70 32.30	31.70 19.90 22.90	1.03 -0.41 7.34	-0.50 5.29 2.64	.	.
2-E28-23	31JAN89	7,170	7,600	8,500.00	3,960.00	.	16.90	10.10	-3.74	844.00	7.2100	.
2-E28-24	31JAN89 10MAR89 10MAR89	.	.	304.00	175.00	.	42.00 -0.77 41.70	1.19 0.29 1.06	0.38	33.20	58.1000 0.2430	.
2-E28-25	31JAN89 10MAR89 10MAR89	.	.	7,160.00	5,740.00	.	71.50 26.60 19.00	21.30 12.30 11.80	0.81	1070.00	71.9000 7.7100	.
2-E28-26	16MAR89 27JUL89 07SEP89	169,000 134,000 122,000	49,300 48,500 43,000	10.00 7.25 10.90	-0.13 1.11 -0.32	19.80 13.60 14.40	14.00 21.40 14.80	24.60 17.10 25.00	1.32 -0.35 1.24	-3.18 -1.54 -0.75	.	.
2-E28-27	15MAR89 28JUL89 28JUL89 07SEP89	212,000 400,000 396,000 417,000	23,100 30,700 31,000 29,000	27.30 17.30 16.70 17.70	-0.25 -0.16 0.19 0.28	151.00 113.00 111.00 99.30	0.76 3.55 4.10 2.58	3.31 3.66 3.46 3.37	4.27 -0.94 6.47 2.02	-4.41 -1.41 0.00 2.25	.	.
2-E32-1	17MAR89	22,800	9,200	14.80	.	.	.	.	.	.	.	.
2-E32-2	13MAR89 01AUG89 06SEP89	95,900 216,000 220,000	15,900 20,900 21,600	19.20 18.70 21.00	-0.45 -0.36 0.32	159.00 116.00 98.80	2.21 1.14 2.86	2.91 2.11 2.37	3.59 3.03 6.06	1.41 -3.64 -1.50	.	.
2-E32-3	06SEP89	652,000	54,000	13.80	0.25	59.80	8.07	11.40	4.26	5.41	.	.
2-E32-4	01MAR89 13MAR89 26MAY89	5,650 5,590 -94	24,600 24,800	5.99 3.72	-0.34	4.44	4.25 5.89	4.15 4.27	-0.20	1.44	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr-90, pCi/L</u>	<u>Tc-99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	16JUN89	24,700	29,000	9.12	-	-	4.82	-	-	-	-	-
	19JUL89	41,700	29,600	10.00	-0.17	6.22	7.93	9.32	0.38	1.77	-	-
	08SEP89	320	24,500	6.57	-0.35	13.80	3.00	2.19	4.36	1.89	-	-
2-E33-1	20MAR89	-	-	47.70	-0.10	-	-	-	2.64	1.77	-	-
	20JUL89	-	38,000	-	-	-	-	-	-	-	-	-
2-E33-3	20MAR89	4,660	-	14.90	-0.21	-	-	-	2.02	-5.26	-	-
2-E33-5	20MAR89	-	-	102.00	-0.33	-	-	-	10.50	7.50	-	-
2-E33-7	31JAN89	-	-	386.00	0.82	-	-	-	26.30	1.86	-	-
	08JUN89	6,710	79,800	-	-	4,460.00	-	-	2.46	-	-	0.504
	08JUN89	-	-	362.00	0.46	-	-	-	53.40	-3.01	-	-
	25AUG89	-	-	312.00	0.24	-	-	-	33.90	-1.88	-	-
2-E33-8	20MAR89	-	-	79.50	-0.19	-	-	-	1.78	5.85	-	-
2-E33-9	07FEB89	2,380	8,600	81.80	0.80	-	-	-	3.44	6.39	-	-
	09JUN89	-	-	-	-	-	-	-	-	-	-	-
	09JUN89	3,060	9,000	137.00	0.98	-	-	-	-0.81	0.00	-	-
	27SEP89	24	16,000	8.35	0.02	-	-	-	-1.42	-3.75	-	-
2-E33-10	22MAR89	4,740	5,920	14.90	-0.36	-	-	-	7.29	0.00	-	-
2-E33-12	20MAR89	353	<2,500	-	-	-	-	-	-	-	-	-
	25AUG89	390	<2,500	-	-	-	-	-	-	-	-	-
2-E33-18	20MAR89	-	-	6.19	-0.09	-	-	-	-0.35	0.88	-	-
2-E33-20	31JAN89	-	3,900	23.10	3.63	-	-	-	-	-	-	0.890
	08JUN89	4,380	-	-	-	18.00	-	-	-	-	-	-
	08JUN89	-	2,600	9.22	-	-	-	-	-	-	-	-
	25AUG89	-	2,500	20.80	0.80	-	-	-	-	-	-	-
2-E33-21	31JAN89	-	-	12.60	-	-	-	-	-0.41	-0.13	-	-
2-E33-24	20MAR89	-	-	102.00	-0.25	1,190.00	-	-	3.03	3.01	-	-
2-E33-26	20MAR89	-	-	110.00	-0.18	-	-	-	9.63	0.71	-	-
2-E33-28	16MAR89	2,610	3,500	9.36	0.15	100.00	1.15	1.75	2.48	-1.12	-	-
	01AUG89	3,440	4,000	7.22	-0.21	75.70	0.59	1.63	-0.41	0.00	-	-
	12SEP89	3,290	4,100	14.50	-0.36	66.00	2.62	1.59	-4.34	-2.86	-	-
	12SEP89	-	4,100	17.10	-	-	0.95	1.45	-	-	-	-

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, μg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-E33-29	16MAR89	6,390	7,600	11.30	0.27	56.70	0.96	1.84	5.87	0.48	.	.
	01AUG89	7,140	7,100	11.00	0.16	45.30	2.85	1.48	-2.65	-1.77	.	.
	07SEP89	6,880	6,900	10.30	0.41	48.70	1.76	1.36	-1.45	4.47	.	.
2-E33-30	14MAR89	5,860	7,400	10.50	0.17	69.50	1.72	1.54	-1.45	0.37	.	.
	01AUG89	6,790	7,100	10.90	-0.22	58.50	2.27	1.54	1.01	9.02	.	.
	07SEP89	6,740	6,800	12.60	-0.54	49.70	1.29	1.54	-1.82	-4.51	.	.
2-E34-1	07FEB89	2,280	.	4.79	.	.	1.66	.	0.82	11.30	.	.
	04DEC89	3,480	10,000	8.69	-0.23	-0.52	1.12	1.30	2.13	8.27	.	.
2-E34-2	15MAR89	2,340	15,400	6.19	-0.26	-1.94	2.04	3.00	4.65	-4.76	.	.
	01AUG89	3,470	13,700	7.12	0.17	-0.52	1.17	1.57	2.23	3.76	.	.
	06SEP89	3,130	13,000	8.46	-0.21	1.59	2.18	1.95	-0.21	-2.98	.	.
	27NOV89	3,430	12,000	9.66	0.35	2.75	1.19	1.74	-2.69	2.62	.	.
2-E34-3	14MAR89	9,480	5,100	17.80	-0.04	-1.94	1.70	2.43	-0.20	1.51	.	.
	31JUL89	8,310	4,600	7.49	0.12	-1.38	1.52	1.86	1.14	-2.47	.	.
	07SEP89	8,270	4,300	7.73	0.09	2.24	2.33	1.82	1.32	0.35	.	.
2-E34-5	15MAR89	207	13,600	3.97	-0.31	-0.53	2.72	4.26	-5.29	-0.36	.	.
	31JUL89	99	13,400	8.28	-0.32	-0.88	2.99	3.18	-1.66	-2.23	.	.
	06SEP89	164	13,200	8.59	-0.20	1.69	3.47	3.38	-0.35	3.64	.	.
2-E34-6	16MAR89	431	6,400	5.33	0.44	-0.07	1.24	3.71	2.45	1.64	.	.
	31JUL89	369	6,400	18.00	-0.21	0.13	1.04	2.93	0.53	-0.99	.	.
	06SEP89	225	6,500	8.11	-0.17	1.96	3.08	2.65	-1.70	-1.77	.	.
2-W6-2	04JAN89	10,500	71,700	12.30	-0.27	97.50	0.48	0.96	-0.36	0.66	-0.0002	.
	09MAY89	13,500	74,900	13.20	-0.41	78.80	1.65	0.83	5.99	-1.61	-0.0002	.
	21JUL89	14,000	74,500	12.30	0.13	82.00	2.41	1.39	2.65	1.41	-0.0019	.
	21JUL89	14,500	73,200	15.60	0.32	83.30	2.50	1.50	3.02	2.47	0.0018	.
	07SEP89	14,300	24,600	16.40	.	85.90	2.69	1.11	-0.53	5.96	.	.
2-W7-1	10MAY89	82	42,600	4.61	-0.32	6.16	0.69	0.50	-0.35	0.77	0.0033	.
	10JUL89	167	45,100	3.11	-0.38	6.90	0.35	0.62	5.85	-3.01	-0.0021	.
	07SEP89	-39	43,000	4.45	.	8.22	2.10	0.48	2.27	0.35	.	.
2-W7-2	20MAR89	41	29,900	3.11	-0.14	2.77	1.10	0.90	1.60	2.76	-0.0002	.
	20JUL89	57	25,600	3.60	-0.30	2.95	0.43	0.56	-1.78	-0.22	-0.0043	.
	07SEP89	-61	42,000	5.85	.	5.41	1.59	0.71	2.22	3.01	.	.
2-W7-3	20MAR89	65	3,000	4.99	0.15	1.74	0.30	0.95	3.59	-0.71	-0.0002	.
	28JUL89	-61	3,300	6.89	-0.13	-0.55	2.48	1.52	2.27	-1.12	-0.0002	.
	15SEP89	135	3,200	4.26	.	-0.65	1.58	1.01	2.08	2.12	.	.

C.61

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-W7-4	22MAR89	283	74,200	7.79	0.04	76.70	0.16	1.28	0.98	4.81	0.0079	.
	24JUL89	384	77,000	15.70	-0.25	68.70	2.65	1.17	-0.57	4.59	-0.0002	.
	13SEP89	451	74,000	13.60	.	68.50	2.46	1.40	8.29	-1.00	.	.
2-W7-5	17MAR89	113	43,300	15.40	-0.35	36.80	1.71	0.98	2.27	-1.77	-0.0002	.
	25JUL89	371	44,800	7.57	0.05	19.80	3.60	1.19	2.22	-2.25	0.0021	.
	08SEP89	277	45,000	8.21	.	26.60	1.64	1.18	-3.04	4.01	.	.
2-W7-6	17MAR89	842	5,300	7.63	0.04	~0.63	4.21	1.86	0.81	3.76	0.0037	.
	26JUL89	918	5,600	10.10	0.60	-0.38	14.10	3.85	-4.45	0.00	-0.0002	.
	08SEP89	914	5,900	13.20	.	-0.74	24.40	7.57	-1.89	-2.62	.	.
2-W8-1	12MAY89	64	28,200	5.63	-0.01	16.30	0.48	0.69	3.41	-3.77	0.0025	.
	10JUL89	57	30,400	7.53	0.13	16.30	-0.09	0.85	-3.09	-4.97	-0.0002	.
	12SEP89	112	30,000	4.24	.	12.80	0.04	0.58	0.81	-0.63	.	.
2-W9-1	12MAY89	36	18,800	9.05	0.03	16.10	1.62	1.08	-0.21	1.12	-0.0021	.
	10JUL89	120	18,500	5.07	-0.00	17.70	0.76	0.84	8.28	1.13	0.0022	.
	11SEP89	265	20,300	6.32	.	3.95	2.23	0.88	2.07	-0.87	.	.
2-W10-1	09MAR89	.	.	43.70	0.02	.	.	.	11.40	-7.28	.	.
	26SEP89	.	.	46.20	0.04	.	.	.	3.91	-3.42	.	.
2-W10-3	08MAR89	.	.	139.00	0.04	.	18.40	.	13.50	4.41	.	.
	26SEP89	.	.	163.00	0.51	.	92.40	.	16.60	-4.12	.	.
2-W10-13	03JAN89	13	7,800	4.84	-0.01	24.20	0.46	0.67	-0.76	1.77	-0.0025	.
	22MAR89	140	8,100	5.88	-0.19	19.80	0.70	0.70	0.00	2.64	0.0452	.
	25JUL89	421	8,000	7.24	-0.79	19.00	0.25	0.68	7.29	0.55	0.0041	.
	13SEP89	285	7,700	7.01	.	17.30	0.53	0.70	3.40	-1.30	.	.
	13SEP89	.	7,700	7.98	.	.	1.57	0.49	.	.	.	.
2-W10-14	03JAN89	40	18,500	6.97	-0.15	-1.80	1.64	0.79	-5.78	-2.73	0.0017	.
	21MAR89	83	21,100	2.02	-0.38	2.50	0.69	0.69	2.42	2.50	-0.0002	.
	27JUL89	-1	22,200	4.07	0.19	-1.16	0.82	0.79	6.20	0.75	0.0048	.
	15SEP89	173	20,400	5.51	.	0.94	1.46	0.60	-2.65	-0.47	.	.
2-W11-7	09MAR89	.	.	47.60	.	.	13.20	.	.	.	.	.
	24AUG89	.	.	22.00	.	.	-0.10	.	.	.	.	.
2-W11-14	09MAR89	.	.	72.80	.	.	173.00	.	.	.	.	.
	24AUG89	.	.	105.00	.	.	220.00	.	.	.	.	.
2-W11-15	09MAR89	.	.	14.40	.	.	.	.	.	.	.	.
2-W14-6	15MAR89		7,600	114,000	24.70		.	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>	
2-W15-2	05JAN89 09MAR89 24AUG89	.	.	4.47 4.86 4.69	.	.	0.41 0.89 2.80	.	.	.	.	.	
2-W15-3	08MAR89 26SEP89	.	130,000 127,000	77.20 94.80	-0.05 -0.28	.	1.61 3.12	.	9.92 6.81	-2.23 1.18	.	.	
2-W15-6	15MAR89	.	5,500	4.95	.	.	0.93	.	.	.	.	.	
2-W15-8	15MAR89	.	.	27.20	.	.	0.70	.	.	.	.	.	
2-W15-12	05JUN89	.	116,000	.	.	.	.	.	.	.	.	.	
C 63	15MAY89 11JUL89 12SEP89	315 476 267	10,500 13,400 15,300	7.15 6.14 3.03	-0.37 -0.21 .	4.34 5.48 5.43	2.09 0.94 3.39	3.64 2.33 3.17	-8.48 -2.31 -2.02	0.00 -4.74 4.88	-0.0002 -0.0002 .	.	
	2-W15-16	09MAY89 25JUL89 22SEP89	100 297 33,700	70,700 69,800 67,000	6.26 10.80 6.70	-0.18 -0.01 .	11.80 12.00 11.90	2.52 5.34 1.74	3.52 1.41 2.01	-1.86 -1.51 -1.65	-4.59 0.35 3.48	-0.0017 -0.0002 .	.
	2-W15-17	31MAY89 27SEP89	32 261	16,700 16,800	8.30 8.06	0.46 .	7.95 13.20	0.99 1.73	0.55 0.69	-1.82 -0.35	0.38 -5.63	0.0413 .	.
2-W15-18	15MAY89 11JUL89 25SEP89	122 472 18	68,900 73,500 72,000	5.76 4.52 8.29	0.24 0.58 .	27.40 8.05 10.10	1.14 0.32 0.97	0.75 0.57 0.69	0.81 -3.20 -2.83	-5.64 1.43 4.71	-0.0002 0.0093 .	.	
2-W18-4	06JUN89	.	39,100	.	.	.	.	.	.	.	.	.	
2-W18-7	01SEP89	.	.	10.90	.	.	9.59	.	.	.	.	.	
2-W18-9	09MAR89 01SEP89	.	<2,500 <2,500	1.73 5.11	.	.	-0.22 1.63	.	.	.	.	.	
2-W18-15	09MAR89	67	<2,500	7.16	.	.	30.80	32.50	-1.62	-5.51	-0.0002	.	
2-W18-17	04JAN89 10JAN89 22FEB89 07MAR89 06JUN89 23AUG89 06OCT89	.	132	5.12 -1.28 2.60 <2,500 1,100 <2,500 3,300	.	.	1.50 1.36 0.86 0.39 .	.	-0.19 2.47 .	.	.		
				0.68	.	.	12.40 3.05	.	16.80 -0.62	1.50 -1.49	.	.	

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	Tritium, pCi/L	Nitrate, μg/L	Gross Beta, pCi/L	Strontium 90, pCi/L	Technetium 99, pCi/L	Gross Alpha, pCi/L	Uranium (total), pCi/L	Cobalt 60, pCi/L	Cesium 137, pCi/L	Plutonium 239,240, pCi/L	Iodine 129, pCi/L
2-W18-20	04JAN89	.	.	5.29	.	.	1.99	.	.	.	.	.
	10JAN89	131	.	8.25	.	.	0.90	.	-0.19	3.18	.	.
	22FEB89	.	.	3.34	.	.	-0.07	.	.	.	.	.
	07MAR89	.	.	1.24	.	.	-0.03	.	.	.	.	.
	15MAR89	.	<2,500	.	.	.	.	.	.	.	.	.
2-W18-21	10OCT89	106	<2,500	9.78	.	.	9.42	.	-1.65	0.37	.	.
	22MAR89	-4	2,200	9.25	-0.07	-0.48	12.30	23.20	-1.70	-1.41	0.0042	.
	16MAY89	734	3,000	7.05	0.05	1.30	19.40	20.80	2.08	2.24	0.0023	.
	16JUN89	.	2,600	6.11	0.93	.	24.80	.	0.19	-0.12	.	.
2-W18-22	12SEP89	309	2,500	7.28	.	0.40	21.50	24.00	-4.98	0.44	.	.
	15JUN89	1,150	16,900	6.24	0.14	0.52	1.03	0.64	2.46	1.89	0.0072	.
	31JUL89	-61	15,800	6.46	-0.26	-0.86	1.71	0.51	.	-0.38	-0.0002	.
2-W18-23	22SEP89	1,090	15,800	4.83	.	2.46	1.02	0.88	-0.19	-3.77	.	.
	03JAN89	-78	5,800	4.68	-0.30	-0.56	0.29	0.98	3.47	-2.90	-0.0021	.
	11MAY89	160	5,700	0.49	0.11	0.36	1.25	1.10	3.51	3.35	0.0022	.
	24JUL89	131	5,870	4.71	-0.34	1.34	1.10	1.41	3.78	-0.59	-0.0002	.
2-W18-24	22SEP89	615	5,800	3.46	.	2.19	1.45	0.99	2.07	1.99	.	.
	04JAN89	17	22,000	3.30	-0.09	1.81	1.94	0.77	7.29	4.97	0.0019	.
	11MAY89	126	21,700	3.93	-0.00	46.00	1.13	1.10	2.02	-2.25	-0.0033	.
	28JUL89	64	20,700	2.56	-0.30	-0.13	1.04	0.87	4.09	1.21	0.0023	.
2-W19-2	25SEP89	219	18,700	7.37	.	0.56	1.87	0.71	-0.40	2.88	.	.
	12JAN89	77,400	324,000	93.80	4.24	.	76.70	31.70	-4.34	-3.10	.	.
	22FEB89	.	199,000	66.50	.	.	36.50	103.00	.	.	.	.
	10MAR89	.	180,000	124.00	.	.	76.00	85.40	.	.	.	.
2-W19-3	09OCT89	24,700	101,000	102.00	2.02	.	10.20	16.20	0.53	-4.63	.	.
	13JAN89	404	37,000	509.00	.	881.00	1,840.00	1,670.00	0.79	-6.80	.	.
	13FEB89	.	.	0.16	.	-13.70	1,310.00	1,150.00	3.47	-2.90	.	.
	22FEB89	.	21,900	557.00	.	713.00	811.00	1,390.00	0.98	-3.49	.	.
2-W19-9	10MAR89	.	24,100	239.00	.	.	.	.	.	.	.	.
	13FEB89	430	28,700	364.00	-0.20	852.00	998.00	972.00	-5.89	-3.49	.	.
2-W19-13	13FEB89	-46	15,900	12.90	0.05	.	3.11	6.51	-4.04	3.01	.	.
2-W19-14	13FEB89	5	11,700	8.80	0.12	.	1.20	3.17	-6.04	-5.18	.	.
2-W19-15	13FEB89	2,770	68,600	78.20	-0.41	657.00	56.00	31.80	2.35	-1.13	.	.
2-W19-16	13FEB89	2,180	47,600	286.00	-0.20	1,480.00	641.00	445.00	2.28	-3.17	.	.

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TABLE C.3. (contd)

Well Name	Collection Date	Tritium, pCi/L	Nitrate, µg/L	Gross Beta, pCi/L	Strontium 90, pCi/L	Technetium 99, pCi/L	Gross Alpha, pCi/L	Uranium (total), pCi/L	Cobalt 60, pCi/L	Cesium 137, pCi/L	Plutonium 239,240, pCi/L	Iodine 129, pCi/L
2-W19-17	10MAR89	263	10,000	45.90	-0.03	115.00	19.00	12.50	-0.61	-8.52	.	.
2-W19-18	13JAN89	4,960	99,700	1,270.00	.	3,830.00	2,000.00	2,010.00	-0.41	-1.12	.	.
	22FEB89	.	88,200	1,360.00	.	3,860.00	2,450.00	2,130.00	0.78	0.72	.	.
	10MAR89	.	84,500	632.00	.	2,200.00	1,000.00	2,170.00	-1.89	-3.65	.	.
	06OCT89	841	40,000	531.00	.	967.00	1,310.00	1,310.00	1.55	3.04	.	.
2-W19-19	12JAN89	3,190	1,340,000	1,110.00	1.01	16,400.00	285.00	425.00	.	2.65	-3.18	.
	31JAN89	.	.	.	.	.	.	.	.	.	.	.
	22FEB89	1,630	1,310,000	1,110.00	.	16,900.00	356.00	2,010.00	.	.	.	.
	08MAR89	1,620	1,300,000	1,100.00	.	19,400.00	363.00	522.00	.	.	.	.
	06OCT89	1,770	1,340,000	1,370.00	-0.06	24,600.00	294.00	443.00	-2.67	1.21	.	.
	31OCT89	1,520	1,280,000	691.00	0.25	.	170.00	547.00	0.58	1.31	-0.0002	.
2-W19-20	11JAN89	1,850	1,080,000	989.00	1.20	14,000.00	213.00	331.00	.	-1.82	8.93	.
	31JAN89	.	.	.	.	.	.	.	.	.	.	.
	17FEB89	2,540	1,080,000	1,450.00	.	15,300.00	189.00	326.00	.	.	.	.
	08MAR89	3,760	1,030,000	1,080.00	.	17,700.00	240.00	418.00	.	.	.	.
	05OCT89	2,630	1,110,000	1,360.00	0.69	25,400.00	233.00	270.00	-0.45	1.27	.	.
	30OCT89	1,960	1,050,000	753.00	.	.	157.00	2.04	-1.15	1.78	-0.0017	.
2-W19-21	04JAN89	-103	<2,500	11.60	-0.47	.	11.80	15.20	3.33	1.92	-0.0002	.
	02NOV89	118	700	4.24	-0.03	.	11.50	15.10	-1.52	-3.54	-0.0002	.
2-W19-23	11JAN89	1,990	343,000	145.00	.	987.00	94.60	135.00	.	-2.07	1.49	0.0394
	31JAN89	.	.	.	-0.05	.	.	.	.	.	.	.
	17FEB89	606	337,000	136.00	.	1,060.00	137.00	115.00	.	.	.	.
	08MAR89	643	330,000	134.00	.	1,100.00	135.00	126.00	.	.	.	.
	05OCT89	1,600	490,000	175.00	0.33	1,850.00	114.00	172.00	-2.13	2.13	0.0024	.
	27OCT89	765	495,000	632.00	0.45	.	208.00	126.00	-2.53	3.19	0.0637	.
2-W19-24	12JAN89	1,610	946,000	1,850.00	.	34,100.00	273.00	320.00	.	6.24	-0.44	0.1170
	31JAN89	.	.	.	1.81	.	.	.	.	.	.	.
	17FEB89	1,500	952,000	2,490.00	.	27.20	276.00	297.00	.	.	.	.
	08MAR89	2,820	927,000	2,380.00	.	39,000.00	257.00	350.00	.	.	.	.
	31JUL89	.	.	.	.	.	.	.	3.24	.	.	.
	06OCT89	1,440	1,040,000	2,270.00	4.31	41,000.00	271.00	355.00	-1.66	-3.54	0.0074	.
	30OCT89	1,260	980,000	1,650.00	.	.	189.00	397.00	-3.73	1.32	-0.0002	.
2-W19-25	12JAN89	1,780	836,000	1,910.00	.	20,000.00	183.00	192.00	.	-4.05	-4.51	0.0501
	31JAN89	.	.	.	-0.07	.	.	.	.	.	.	.
	17FEB89	2,290	879,000	2,180.00	.	8,810.00	176.00	187.00	.	.	.	.
	08MAR89	2,390	880,000	2,190.00	.	26,700.00	162.00	181.00	.	.	.	.
	05OCT89	3,010	960,000	2,240.00	0.11	33,000.00	193.00	231.00	-5.59	-1.55	-0.0008	.

C.5

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-W19-26	05OCT89 27OCT89	2,090 1,090	1,360,000 1,300,000	608.00 222.00	1.88 0.59	7,290.00 . .	315.00 144.00	333.00 340.00	2.53 -1.42	-0.88 -2.98	0.0220 0.0182	.
2-W19-27	01FEB89 02NOV89	162 114	<2,500 900	3.71 6.49	0.04 0.11	. .	9.18 4.25	9.10 8.57	0.38 -0.18	2.47 -1.66	0.0053 -0.0002	.
2-W22-1	04JAN89	2,960	6,300	27.80	6.91	. .	1.74	. .	0.00	-2.27	.	.
2-W22-2	01FEB89	67,300	7,400	15.40	1.10	. .	4.94	. .	1.65	-0.37	.	.
2-W22-10	15FEB89	.	.	59.80	29.80	. .	7.71	. .	5.99	1.12	.	.
2-W22-18	15FEB89	.	.	18.50	0.31	. .	5.71	. .	4.70	1.89	.	.
2-W22-22	01FEB89	1,400	16,900	4.55	-0.20	. .	1.62	1.35	0.53	1.77	.	.
2-W23-1	15FEB89 26SEP89	.	<2,500 58,800	28.10 404.00	0.17 .	. .	. .	. .	-0.39 4.98	-4.33 8.27	.	.
2-W23-2	04JAN89 20JAN89 23FEB89 08MAR89 24AUG89 06OCT89	.	30,600	256.00 125.00 102.00 127.00 31,500 33,000	-0.06 .	972.00 959.00 103.00 1,650.00 234.00 420.00	.	.	2.15	1.08	.	.
2-W23-3	15FEB89 26SEP89	.	21,500 17,900	35.90 33.70	0.14 0.10	. .	. .	. .	-4.54 -1.86	0.35 2.23	.	.
2-W23-4	04JAN89 12JAN89 22FEB89 07MAR89 10OCT89	185,000 206,000 130,000 114,000 23,500	3,900 4,000 2,900 3,100 <2,500	36.90 77.70 36.70 44.80 36.80	.	.	27.60 40.70 49.60 64.20 45.40	47.50 258.00 69.00 85.40 60.60	.	.	.	.
2-W23-7	04JAN89 13JAN89 23FEB89 08MAR89 24AUG89 06OCT89	.	.	233.00 208.00 187.00 254.00 251.00 301.00	.	2,320.00 1,700.00 117.00 3,470.00 2,990.00 3,580.00	.	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, <math>\mu\text{g}/\text{L}</math></u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
2-W23-9	05JAN89	1,190,000	54,000	51.10	.	.	56.50	42.20	2.25	1.51	.	.
	11JAN89	1,140,000	59,400	20.30	0.16	.	25.90	36.10	-0.62	4.22	.	.
	23FEB89	1,150,000	42,300	23.00	.	.	27.10	50.90	1.96	1.32	.	.
	10MAR89	1,050,000	.	24.50	.	.	28.30	31.20	-1.32	-1.41	.	.
	06OCT89	1,520,000	223,000	31.10	0.13	.	49.30	45.30	4.27	2.65	.	.
2-W23-10	05JAN89	553,000	87,100	11.00	0.28	.	21.60	30.70	0.83	1.86	.	.
	15FEB89	555,000	96,800	8.45	-0.66	.	21.20	31.10	-2.74	2.53	.	.
2-W23-11	15FEB89	820	<2,500	4.10	.	.	10.60	17.40	3.41	0.12	.	.
2-W27-1	01FEB89	5,050	96,900	4.96	-0.79	.	5.90	7.92	0.00	0.38	0.0019	.
3-1-1	16MAR89	.	.	.	.	2.22	.	.	.	.	.	.
3-1-3	21NOV89	211	1,100	22.00	0.48	80.50	82.80	66.40	3.24	-7.01	.	.
3-1-7	02JUN89	.	4,200	26.90	.	.	100.00	61.60	.	.	.	.
	13JUN89	146	.	.	.	.	.	.	.	.	.	.
	21NOV89	200	1,200	18.40	-0.22	71.80	63.90	56.10	-0.19	-4.71	.	.
	19DEC89	246	.	.	.	.	.	.	.	.	.	.
	19DEC89	184	1,300	22.40	.	.	54.30	68.60	.	.	.	.
	19DEC89	183	1,300	26.70	.	.	58.20	51.80	.	.	.	.
3-1-10	07JUN89	.	2,300	5.81	.	.	25.00	27.70	.	.	.	.
	18DEC89	.	1,300	4.65	.	.	8.75	11.50	.	.	.	.
3-1-11	05JAN89	.	2,300	.	.	.	.	32.70	.	.	.	.
	19JAN89	.	2,400	.	.	.	.	48.00	.	.	.	.
	01FEB89	.	1,500	.	.	.	.	60.70	.	.	.	.
	17FEB89	.	2,100	.	.	.	.	63.20	.	.	.	.
	01MAR89	.	1,800	.	.	.	.	55.90	.	.	.	.
	16MAR89	.	1,300	.	.	.	.	59.70	.	.	.	.
	14JUN89	.	1,200	5.74	.	.	10.10	13.60	.	.	.	.
	03AUG89	.	1,100	.	.	.	.	21.90	.	.	.	.
	17AUG89	.	500	.	.	.	.	14.90	.	.	.	.
	28AUG89	.	1,200	.	.	.	.	10.50	.	.	.	.
	13SEP89	.	1,300	.	.	.	.	13.20	.	.	.	.
	27SEP89	.	1,700	.	.	.	.	11.40	.	.	.	.
	19DEC89	.	1,200	5.56	.	.	22.60	22.00	.	.	.	.
3-1-12	02JUN89	.	1,200	8.22	.	.	36.10	34.90	.	.	.	.
	12JUN89	66	.	.	.	.	.	.	.	.	.	.
	18DEC89	.	1,300	9.83	.	.	33.70	39.10	.	.	.	.

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9 2 1 2 6 3 9 0 1 5 1

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
3-1-13	06JUN89	.	1,400	1.45	.	.	3.28	8.20	.	.	.	.
	18DEC89	.	4,000	6.79	.	.	6.13	6.68	.	.	.	.
3-1-14	06JUN89	.	1,100	2.39	.	.	10.40	12.40	.	.	.	.
	18DEC89	.	2,500	7.41	.	.	11.70	10.70	.	.	.	.
3-1-15	09JUN89	.	2,700	8.69	.	.	12.60	9.05	.	.	.	.
	09JUN89	.	2,800	2.95	.	.	8.75	9.09	.	.	.	.
	18DEC89	.	21,200	6.85	.	.	4.81	5.32	.	.	.	.
3-1-16A	13JAN89	.	2,800	.	.	.	.	6.96	.	.	.	.
	27JAN89	.	2,900	.	.	.	.	.	.	.	.	.
	07JUN89	.	3,600	7.09	.	.	17.80	12.20	.	.	.	.
	18DEC89	.	1,300	6.13	.	.	6.93	12.00	.	.	.	.
3-1-16B	13JAN89	.	<500	.	.	.	.	1.60	.	.	.	.
	27JAN89	.	<500	.	.	.	.	.	.	.	.	.
	07JUN89	.	<500	5.95	.	.	1.97	2.11	.	.	.	.
	18DEC89	.	<500	6.78	.	.	0.75	1.23	.	.	.	.
3-1-16C	13JAN89	.	<500	.	.	.	.	2.08	.	.	.	.
	27JAN89	.	1,500	.	.	.	.	.	.	.	.	.
	07JUN89	.	800	7.72	.	.	3.12	3.63	.	.	.	.
3-1-17A	05JAN89	.	1,800	.	.	.	.	149.00	.	.	.	.
	19JAN89	.	3,100	.	.	.	.	120.00	.	.	.	.
	01FEB89	.	2,500	.	.	.	.	138.00	.	.	.	.
	17FEB89	.	2,500	.	.	.	.	122.00	.	.	.	.
	01MAR89	.	2,300	.	.	.	.	150.00	.	.	.	.
	16MAR89	.	2,000	.	.	.	.	164.00	.	.	.	.
	10MAY89	124	<2,500	32.20	.	.	94.50	.	4.75	-1.37	.	.
	10MAY89	.	1,600	.	.	.	.	196.00	.	.	.	.
	05JUN89	.	1,100	27.70	.	.	120.00	106.00	.	.	.	.
	03AUG89	.	1,500	.	.	.	.	83.70	.	.	.	.
	17AUG89	.	1,800	.	.	.	.	66.20	.	.	.	.
	28AUG89	326	<2,500	42.10	.	.	64.90	.	-3.30	3.97	.	.
	28AUG89	.	1,200	.	.	.	.	63.70	.	.	.	.
	13SEP89	.	1,000	.	.	.	.	49.60	.	.	.	.
	27SEP89	.	1,000	.	.	.	.	54.60	.	.	.	.
	04OCT89	.	2,000	.	.	.	.	40.10	.	.	.	.
	10OCT89	.	1,200	.	.	.	.	51.40	.	.	.	.
	17OCT89	.	1,000	.	.	.	.	57.40	.	.	.	.
	24OCT89	.	1,200	.	.	.	.	67.80	.	.	.	.
	31OCT89	.	1,200	.	.	.	.	89.40	.	.	.	.
	07NOV89	.	800	.	.	.	.	102.00	.	.	.	.
	14NOV89	.	.	1,100	.	.	.	.	.	.	.	92.00

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9 2 1 2 6 3 9 0 1 5 2

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
	21NOV89	.	1,200	.	.	.	.	94.40	.	.	.	.
	28NOV89	.	1,100	.	.	.	.	125.00	.	.	.	.
	05DEC89	.	1,000	.	.	.	.	99.80	.	.	.	.
	12DEC89	.	1,000	.	.	.	.	80.10	.	.	.	.
	19DEC89	143	.	42.70	.	.	155.00	.	3.41	4.71	.	.
	19DEC89	.	1,400	46.70	.	.	162.00	143.00	.	.	.	.
	28DEC89	.	1,200	.	.	.	.	201.00	.	.	.	.
3-1-17B	05JUN89	-54	.	0.25	.	.	.	.	.	.	.	.
	05JUN89	.	<500	5.77	.	.	-0.40	-0.03	.	.	.	.
	19DEC89	-3	.	0.53	.	.	.	.	.	.	.	.
	19DEC89	.	<500	3.31	.	.	-0.80	0.03	.	.	.	.
3-1-17C	05JUN89	58	.	9.75	.	.	-0.04	0.18	.	.	.	.
	05JUN89	.	<500	.	.	.	.	.	.	.	.	.
3-1-18A	05JAN89	.	21,600	.	.	.	.	3.02	.	.	.	.
	19JAN89	.	22,200	.	.	.	.	3.22	.	.	.	.
	01FEB89	.	22,500	.	.	.	.	3.57	.	.	.	.
	17FEB89	.	22,400	.	.	.	.	3.20	.	.	.	.
	01MAR89	.	21,000	.	.	.	.	3.59	.	.	.	.
	16MAR89	.	21,300	.	.	.	.	3.82	.	.	.	.
	10MAY89	.	22,600	.	.	.	.	2.58	.	.	.	.
	08JUN89	6,450	23,600	8.92	.	.	2.62	3.74	.	.	.	.
	03AUG89	.	22,000	.	.	.	.	2.86	.	.	.	.
	17AUG89	.	22,300	.	.	.	.	3.27	.	.	.	.
	28AUG89	.	22,700	.	.	.	.	4.05	.	.	.	.
	27SEP89	.	21,200	.	.	.	.	4.03	.	.	.	.
	18DEC89	.	22,200	7.60	.	.	3.51	3.40	.	.	.	.
3-1-18B	08JUN89	.	<500	5.69	.	.	0.45	-0.01	.	.	.	.
3-1-19	05JAN89	.	1,900	.	.	.	.	182.00	.	.	.	.
	19JAN89	.	3,800	.	.	.	.	125.00	.	.	.	.
	01FEB89	.	2,800	.	.	.	.	196.00	.	.	.	.
	17FEB89	.	2,700	.	.	.	.	223.00	.	.	.	.
	01MAR89	.	1,800	.	.	.	.	350.00	.	.	.	.
	16MAR89	.	1,600	.	.	.	.	370.00	.	.	.	.
3-2-1	03MAR89	.	.	.	18.10	.	.	.	.	.	.	.
	09JUN89	.	9,400	7.16	.	.	13.20	13.50	.	.	.	.
	19DEC89	367	.	.	31.90	.	.	.	.	.	.	.
	19DEC89	.	5,400	9.22	.	.	9.67	6.95	.	.	.	.

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9 2 1 2 6 3 9 0 1 5 3

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
3-2-2	09JUN89	.	4,100	16.00	.	.	47.60	39.50	.	.	.	.
3-3-7	16AUG89	.	14,900	6.71	.	.	5.22	10.20	.	.	.	.
	16AUG89	.	14,700	6.76	.	.	9.90	8.33	.	.	.	.
	19DEC89	1,450	.	.	.	3.42	.	.	.	.	.	.
	19DEC89	.	12,300	6.12	.	.	7.81	5.55	.	.	.	.
3-3-9	12JUN89	.	9,900	4.49	.	0.04	28.70	13.50	17.90	.	.	.
	19DEC89	433	.	10,700	7.62	.	.	11.20	11.60	.	.	.
	19DEC89	.	.	.	.	.	.	.	.	.	.	.
3-3-10	02JUN89	.	6,900	1.20	.	-0.28	.	6.46	8.58	.	.	.
	12JUN89	137	.	.	.	0.30	.	.	.	.	.	.
	19DEC89	471	.	11,700	11.80	.	.	15.10	17.60	.	.	.
	19DEC89	.	.	.	.	.	.	.	.	.	.	.
3-4-1	12JUL89	.	16,600	13.90	.	.	12.80	16.10	.	.	.	.
	20DEC89	380	.	14,300	7.15	.	.	9.39	8.75	.	.	.
	20DEC89	.	.	.	.	.	.	.	.	.	.	.
3-4-7	13JUN89	.	11,000	12.60	.	.	29.20	12.50	.	.	.	.
	20DEC89	2,050	.	13,800	14.10	.	11.90	30.50	20.80	.	.	.
	20DEC89	.	.	.	.	.	.	.	.	.	.	.
3-4-11	06JUN89	.	13,100	7.13	.	.	5.16	8.75	.	.	.	.
	20DEC89	429	.	14,800	10.20	.	.	7.30	7.04	.	.	.
	20DEC89	.	.	.	.	.	.	.	.	.	.	.
3-6-1	01MAR89	.	.	.	.	-0.36	.	.	.	.	.	.
3-8-1	05JUN89	223	14,800	.	.	0.33	.	.	.	.	.	.
	05JUN89	.	15,500	4.85	.	.	2.69	4.06	.	.	.	.
	20DEC89	18	20,300	.	.	1.51	.	4.89	2.82	.	.	.
	20DEC89	.	20,900	3.71	.	.	.	.	.	.	.	.
3-8-2	13JUN89	.	21,600	5.60	.	.	1.87	2.32	.	.	.	.
3-8-3	14JUN89	1,050	14,000	.	.	2.38	.	0.70	3.78	.	.	.
	14JUN89	.	14,300	6.03	.	.	.	.	.	.	.	.
4-S1-7C	29MAR89	.	.	.	.	.	.	.	.	.	.	-0.009
4-S1-8A	29MAR89	.	.	.	.	.	.	.	.	.	.	0.009
4-S1-8B	29MAR89	.	.	.	.	.	.	.	.	.	.	0.001

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9 2 1 2 6 3 9 0 1 5 4

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
4-S1-8C	29MAR89	.	.	.	.	.	.	.	.	.	.	-0.008
6-S43-E12	07FEB89	100	23,400	6.85	.	.	2.57	.	.	.	.	.
	31MAY89	68	20,300	11.10	.	.	3.55	.	.	.	.	.
	06NOV89	204	13,300	3.59	.	.	2.60	.	.	.	.	.
6-S41-E13A	11JAN89	.	6,800	.	.	.	0.88	.	.	.	.	.
	08FEB89	81	6,500	6.15	.	.	.	.	.	.	.	.
	07MAR89	.	7,200	.	.	.	.	.	.	.	.	.
	24MAY89	.	6,000	.	.	.	.	.	.	.	.	.
	30MAY89	58	7,200	4.24	.	.	0.72	.	.	.	.	.
	03NOV89	84	12,000	2.25	.	.	1.09	.	.	.	.	.
6-S41-E13B	11JAN89	.	3,300	.	.	.	.	.	.	.	.	.
	08FEB89	-39	3,800	3.61	.	.	4.12	.	.	.	.	.
	07MAR89	.	3,900	.	.	.	.	.	.	.	.	.
	30MAY89	73	3,800	7.65	.	.	5.65	.	.	.	.	.
	06NOV89	137	3,100	4.55	.	.	3.18	.	.	.	.	.
6-S40-E14	11JAN89	.	700	.	.	.	.	.	.	.	.	.
	07FEB89	95	700	3.08	.	.	0.41	.	.	.	.	.
	07MAR89	.	900	.	.	.	.	.	.	.	.	.
	30MAY89	66	<500	2.96	.	.	1.68	.	.	.	.	.
	03NOV89	101	1,000	1.88	.	.	-0.11	.	.	.	.	.
6-S37-E14	08FEB89	0	1,200	1.71	.	.	0.53	.	.	.	.	.
	31MAY89	-18	1,500	2.64	.	.	-0.14	.	.	.	.	.
	06NOV89	223	1,300	1.28	.	.	0.38	.	.	.	.	.
	06NOV89	239	1,300	4.73	.	.	0.79	.	.	.	.	.
6-S36-E13A	30JAN89	.	5,200	.	.	.	.	.	.	.	.	.
	24MAY89	.	6,100	.	.	.	.	.	.	.	.	.
6-S32-E13A	17JAN89	.	32,100	.	.	.	.	.	.	.	.	.
	24MAY89	.	29,400	.	.	.	.	.	.	.	.	.
6-S32-E13B	17JAN89	.	31,300	.	.	.	.	.	.	.	.	.
	24MAY89	.	26,800	.	.	.	.	.	.	.	.	.
6-S31-E13	17JAN89	.	34,400	.	.	.	.	.	.	.	.	.
	24MAY89	.	28,300	.	.	.	.	.	.	.	.	.
6-S31-1P	20JAN89	-95	4,000	1.27	.	-2.18	0.63	.	.	.	.	.

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9 2 1 2 6 3 9 0 1 5 5

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-S30-E15A	20JAN89	-	-	-	-	-2.21	-	-	-	-	-	-
	11APR89	-93	15,300	4.99	-	-	2.37	1.38	4.96	-0.75	-	-
	23OCT89	39	12,500	6.11	-	-	2.35	1.46	-8.28	6.21	-	-
6-S29-E12	17JAN89	-	21,900	-	-	-	-	-	-	-	-	-
	16MAR89	-	-	-	-	2.80	-	-	-	-	-	-
	11APR89	-119	22,600	7.42	-	-	-	-	-	2.07	-	-
	24MAY89	-	23,700	-	-	-	-	-	-	-	-	-
	20OCT89	20	19,000	7.34	-	-	-	-	-	1.23	-	-
6-S28-E0	20JAN89	-263	10,300	3.07	-0.18	-	0.24	-	-	-	-	-
	07APR89	-	-	-	-	-	-	1.38	-	-	-	-
	07APR89	-88	9,500	3.28	0.19	-	0.40	-	-	-	-	-
	20OCT89	-	-	-	-	-	-	1.39	-	-	-	-
	20OCT89	-93	9,000	4.60	-0.24	-	1.71	-	-	-	-	-
6-S27-E14	20JAN89	-109	28,400	6.70	-	-	-	3.20	-	-	-	-
	11APR89	-159	22,400	9.67	-	-	-	4.78	-	-	-	-
	23OCT89	-128	21,000	9.04	-	-	-	3.41	-	-	-	-
6-S24-19	23MAR89	-134	<2,500	-	-	-	-	0.46	-	-	-	-
6-S19-E13	11APR89	7,670	-	8.01	-	-	-	4.38	4.65	1.13	-	-
	24OCT89	8,410	-	9.36	-	-	-	2.70	7.03	-3.23	-	-
6-S19-11	23MAR89	-90	10,300	5.61	-0.28	-1.73	1.68	-	-	-	-	-
	11APR89	-10	10,300	6.51	0.34	-	2.19	-	2.65	-2.47	-	-
	23OCT89	-2	10,500	6.10	-0.13	-	0.90	-	-0.18	3.64	-	-
6-S18-51	23MAR89	-60	<2,500	11.10	-	-2.47	0.95	-	-	-	-	-
6-S14-20A	02FEB89	-30	<2,500	-	-	-	-	0.26	-11.00	-6.42	-	-
6-S12-3	06FEB89	-	-	-	-	-	-	0.53	-3.03	-2.12	-	-
	11APR89	-38	<2,500	9.03	-	-	3.56	-	-	-	-	-
	26OCT89	84	<2,500	8.66	-	-	1.07	-	-	-	-	-
6-S12-29	20APR89	-162	17,900	6.88	-	-	-0.09	-	-	-	-	-
6-S11-E12A	27MAR89	4,460	20,500	-	-	-	-	-	-	-	-	-
6-S11-E12AP	27MAR89	188	<2,500	6.89	-	-	-0.25	-	-	-	-	-

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Techneium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-S8-19	23MAR89 07APR89 24OCT89	.	9 -137	9.14 6.89	.	.	0.87 2.73	.	.	.	.	-0.037
6-S7-34	23MAR89	-55	<2,500	.	.	.	.	.	.	.	.	.
6-S6-E14A	03FEB89	46	5,300	2.87	.	0.97	.	.	.	.	.	.
6-S6-E4B	01FEB89 07APR89 23OCT89	.	29,000 27,400	19,600 17,500	12.60 12.30	.	.	1.81 4.45	3.17 2.40	11.90 1.70	-0.75 -11.70	.
6-S6-E4D	30JAN89 07APR89 23OCT89	.	39,800 39,500	26,300 16,500	13.90 15.10	.	.	5.21 3.95	2.83 3.07	4.51 0.58	-1.20 1.66	0.010
C.73	6-S3-E12	02FEB89 20APR89 24OCT89	.	6,110 7,630	24,200 23,500	7.20 6.54	.	1.77 1.45	.	.	.	0.073
	6-S3-25	20JAN89	92	<2,500	12.30	.	.	7.83	.	.	.	-0.006
	6-1-18	23MAR89 07APR89 24OCT89	.	42,300 39,300	19,500 19,500	.	.	.	.	.	.	0.025
6-2-3	30JAN89 14APR89 07NOV89	.	104,000 104,000	30,900 30,700	25.30 22.20	.	.	5.40 2.03	.	.	.	0.010
6-2-7	30JAN89	12,300	55,500	.	.	.	.	.	.	.	.	.
6-2-33A	23MAR89 20APR89 24OCT89	.	72 -305	3,600 3,500	6.85 19.80	.	.	2.81 2.67	.	.	.	0.019
6-3-45	24MAR89	-158	<2,500	19.20	0.10	-1.53	.	2.52	.	.	.	0.014
6-8-17	30JAN89 07APR89 19OCT89	.	144,000 136,000	33,900 33,000	29.70 26.70	.	.	-0.33 3.37	.	.	.	0.041

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-8-25	06FEB89											0.090
	07APR89	39,600	20,500	19.70			4.98					
	20OCT89	46,000	21,000	15.60			5.22					
6-8-32	06FEB89											-0.012
	07APR89	-12	3,700	7.13			-0.28					
	24OCT89	-143	5,000	2.93			4.16					
6-10-E12	27MAR89											-0.004
	24APR89	22,600	21,900	10.50			3.47					
	19OCT89	23,400	21,500	10.50			2.90					
6-10-54A	20APR89	-68	12,200	2.89			1.03					
6-13-64	24MAR89											0.009
	21APR89	-142	<2,500	3.06			1.24					
6-14-38	23MAR89											0.070
	20APR89	29	3,900	7.46			1.43					
	04DEC89	125	4,000	4.55			1.85					
6-14-47	23MAR89	-96	<2,500	15.50			3.51					
6-15-15B	23MAR89	-119	19,800	6.54			5.89					-0.042
6-15-26	23MAR89											0.337
6-17-5	03FEB89	-95	68,600	12.30			1.53					
	14APR89	127	67,500	5.49			2.50		-1.43	-5.29		
	19OCT89	43	67,500	6.40			4.21		-1.21	1.00		
6-17-47	23MAR89											-0.025
	18APR89	197	<2,500									
6-17-70	21APR89	-121	46,600									
6-19-43	22FEB89	18	10,300									
6-19-58	18APR89		<2,500									
6-19-88	20APR89	-24	<2,500	3.37			0.62					

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-20-E12	27MAR89 06APR89 26OCT89	. 2,360 3,610	. 31,400 29,500	. 4.29 4.44	. .	. .	. .	. 1.19 1.39	. .	. .	. .	0.046
6-20-E12P	24MAR89	-127	<2,500	7.16	.	-0.85	0.80	.	.	.	.	.
6-20-E5A	24MAR89 06APR89 26OCT89	. 70,600 77,200	. 25,400 25,500	. 16.20 16.50	. .	. .	. 4.26 3.93	. .	. .	. .	. .	-0.048
6-20-E5P	24MAR89	-70	<2,500	7.92	.	0.80	0.47	.	.	.	.	.
6-20-E5Q	24MAR89	20	<2,500	3.93	.	-1.97	-0.50	.	.	.	.	.
6-20-E5R	24MAR89	-15	<2,500	4.65	.	-1.18	-0.10	.	.	.	.	.
6-20-20	03MAR89 17APR89 04DEC89	. 137,000 133,000	. 38,400 37,100 32,800	. 29.50 26.00	. .	. .	. .	. 3.38 2.70	. .	. .	. .	0.368
6-20-39	24MAR89	23	5,500	6.96	.	-0.03	3.36	.	-2.27	3.72	.	.
6-20-82	21APR89	-107	16,900	7.03	.	.	6.04	.	.	.	.	.
6-21-6	28MAR89 06APR89 26OCT89	. 31,100 26,900	. 48,500 40,500	. 13.40 7.47	. .	. .	. 1.23 1.64	. .	. .	. .	. .	-0.008
6-22-70	18APR89 04DEC89	-16 162	10,500 10,100	13.30 3.78	.	.	1.07 1.35	.	.	.	.	.
6-23-34	11JAN89 19MAY89 07AUG89 10OCT89 10OCT89 25OCT89	. . . 143,000 127,000 128,000 . .	. 29,100 29,100 28,100 27,200 27,300 28,600	. 14.30 13.50 0.88 0.04 . .	-0.31 .	. .	3.64 2.50 1.30	.	2.07 3.31 6.04	3.60 3.23 -0.33	.	
6-24-1P	24MAR89	-113	<2,500	11.10	.	-1.18	-0.23	.	.	.	.	.
6-24-10	24MAR89	-16	<2,500	8.73	.	-3.03	0.25	.	.	.	.	.

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TABLE C.3. (contd)

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-25-34B	03AUG89	262,000	29,000	.	.	.	.	.	.	.	.	.
	03AUG89	275,000	29,000	.	.	.	.	.	.	.	.	.
	04OCT89	2,600,000	29,100	.	.	.	.	.	.	.	.	.
6-25-34C	10JAN89	.	33,400	20.60	-0.57	.	3.28	.	-3.91	3.20	.	.
	18MAY89	.	31,200	18.20	0.44	.	4.25	.	0.19	3.65	.	.
	07AUG89	285,000	30,000	20.00	-0.25	.	3.62	.	1.70	1.77	.	.
	10OCT89	268,000	31,000	.	.	.	.	.	.	.	.	.
	25OCT89	.	31,000	.	.	.	.	.	.	.	.	.
6-25-55	20APR89	-35	14,700	5.23	.	.	0.54	.	.	.	.	.
	04DEC89	133	14,000	2.67	.	.	3.07	.	.	.	.	.
6-25-70	24MAR89	.	.	.	.	.	1.76	.	.	.	.	-0.051
	21APR89	692	12,300	4.72	.	.	1.36	.	.	.	.	.
	04DEC89	831	11,700	2.47	.	.	.	.	.	.	.	.
6-26-15A	23MAR89	.	.	.	.	.	2.86	.	9.45	2.12	.	0.483
	06APR89	242,000	33,900	39.10	.	.	2.19	.	2.75	-4.54	.	.
	27DEC89	235,000	33,000	38.50	.	.	.	.	.	.	.	.
6-26-33	04AUG89	258,000	29,600	.	.	.	.	.	.	.	.	.
	04OCT89	246,000	28,200	.	.	.	.	.	.	.	.	.
6-26-34	04AUG89	264,000	28,500	.	.	.	.	.	.	.	.	.
	04OCT89	248,000	27,200	.	.	.	.	.	.	.	.	.
6-26-35A	04AUG89	281,000	31,000	.	.	.	.	.	.	.	.	.
	04OCT89	275,000	30,000	.	.	.	.	.	.	.	.	.
6-26-35C	04AUG89	57,300	22,000	.	.	.	.	.	.	.	.	.
	04OCT89	51,800	22,300	.	.	.	.	.	.	.	.	.
6-26-89	23MAR89	.	<2,500	.	.	.	.	.	.	.	.	.
6-27-8	23MAR89	.	.	.	.	285.00	.	.	.	.	.	0.656
	06APR89	219,000	34,300	36.70	.	.	2.40	.	.	.	.	.
	26OCT89	208,000	33,000	30.20	.	.	2.35	.	.	.	.	.
6-28-40	27MAR89	.	.	.	.	.	.	.	.	.	.	0.128
	12APR89	98,800	19,600	15.10	.	.	4.93	.	.	.	.	.
	14DEC89	83,700	.	10.10	.	.	3.18	.	.	.	.	.
	14DEC89	.	17,500	.	.	.	.	.	.	.	.	.
6-28-40P	27MAR89	150	<2,500	4.08	.	.	4.62	0.60	.	-4.32	-3.01	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Srtronium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>	
6-28-52A	24MAR89	-101	<2,500	11.10	.	.	4.73	.	.	.	.	.	
6-29-4	27MAR89 06APR89 19OCT89	103,000 115,000	30,800 32,000	22.70 20.30	.	.	0.71 6.32	.	.	.	.	-0.002	
6-29-78	29MAR89 21APR89 04DEC89	228 498	7,800 7,200	3.94 1.61	.	.	0.87 2.00	.	.	.	.	0.073	
6-31-31	21FEB89	19,600	3,100	6.24	.	.	1.25	.	.	.	.	.	
6-31-31P	24MAR89	77	<2,500	4.99	.	3.33	-0.12	.	.	.	.	.	
6-32-22	06FEB89 17APR89 09NOV89	.	172,000 147,000	22,600 19,000	32.30 22.20	.	188.00 1.99 3.48	.	.	.	.	1.540	
C-78	6-32-43	06FEB89 17APR89 14DEC89 14DEC89	.	212,000 279,000	17,800 12.20	12.70 23,200	.	28.60 2.20 3.10	.	1.96 8.18 -6.26 -6.07	.	.	1.300
	6-32-62	09FEB89 17APR89	.	2,240	25,900	6.98	.	1.89	.	.	.	.	0.058
	6-32-70B	17JAN89 20JAN89 17APR89 04DEC89	.	19,200	.	.	189.00	.	.	.	.	.	0.856
	6-32-72	20JAN89 20JAN89 24APR89 24APR89	.	140,000	6,600	12.30 11.80	-0.17 -0.08	86.40 -0.22 0.26 3.97	.	1.22	.	-1.06	0.029
6-32-77	20JAN89 24APR89	.	64	5,800	4.35	.	0.49	.	9.93	-2.86	.	.	-0.004
6-33-42	17APR89 14DEC89 14DEC89	189,000 232,000	18,300 20,000	17.80 11.80	.	.	2.36 3.13	.	.	.	.	.	

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-33-56	26APR89 22DEC89	-69 -84	9,700 10,400	6.56 4.57	.	.	2.75 1.64	.	.	.	.	.
6-34-39A	24FEB89	2,030	<2,500	4.82	.	.	0.84	.	4.90	5.54	.	.
6-34-41B	24APR89	15,900	3,500	.	.	.	.	.	9.93	0.50	.	.
6-34-42	17APR89 17OCT89	31,300 51,500	5,800 7,000	8.19 6.44	.	.	3.07 2.89	.	.	.	.	.
6-34-51	06FEB89 17APR89 22DEC89	.	8,800 8,660	8.30 9.57	.	.	3.72 3.26	.	0.98 4.92	2.65 2.65	.	-0.077
6-35-9	24MAR89 14APR89 18OCT89	.	37,400 39,000	35.00 31.60	.	.	3.80 3.66	.	.	.	.	0.056
6-35-66	13JAN89 15MAR89 17APR89	.	24,700 23,500	.	7.24	0.06	40.50	.	.	.	.	1.490
6-35-70	13JAN89 21FEB89 10MAR89 17APR89 14NOV89	.	29,200 27,300 26,600	.	17.90 -0.06 0.36	.	123.00	.	1.98	.	.	10.300 11.100
6-35-78A	12JAN89 09FEB89 24APR89	.	500 <2,500 <2,500	.	4.24 4.48	.	.	15.40 12.90	17.40 19.50	-0.20 2.27	-1.68 1.37	.
6-36-46P	27MAR89	76	<2,500	11.70	.	0.76	0.11	.	.	.	.	.
6-36-46Q	27MAR89 26APR89 22DEC89	130 -42 116	<2,500 <2,500 <2,500	9.12 8.63 7.95	.	2.77 .	0.12 1.54 1.97	.	-2.31 3.60	2.65 -4.24	.	.
6-36-61A	17APR89 22NOV89	.	20,900 20,000	.	.	.	.	.	.	.	.	.
6-36-61B	16JAN89 19JAN89 18APR89	.	9,300 32,200	.	9.75	.	0.87	.	.	.	.	-0.013

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, <math>\mu\text{g}/\text{L}</math></u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-36-93	03MAR89	-165	49,700	7.27	-0.20	-1.21	2.71	.	.	.	.	.
6-37-E4	24MAR89	66,900	29,000	23.00	.	.	2.87	.	.	.	.	.
6-37-43	24FEB89	38,500	10,400	4.00	.	8.22	1.05	.	-0.39	1.44	.	.
6-37-82A	17APR89	-46	42,000	8.71	.	.	1.15	.	.	.	.	.
6-38-15	28MAR89 24APR89 26OCT89	.	49,500 54.40	394,000 365,000	46,600 56.10	.	.	3.44 2.31	.	8.89 7.08 -6.14	0.99	0.463
6-38-65	24FEB89 18APR89 22NOV89	.	167,000	20.00	.	.	1.92 2.43	.	4.70 8.89	0.48 -6.83	.	0.920
C 08	05JAN89	.	.	321.00	.	3,680.00	50.40	45.00	.	.	.	.
	11JAN89	.	.	297.00	.	3,440.00	52.20	65.20	.	.	.	.
	13JAN89	.	237,000	.	.	.	.	.	.	.	.	.
	08FEB89	.	.	252.00	.	2,370.00	24.90	41.90	.	.	.	0.319
	24FEB89	.	.	306.00	.	3,890.00	40.40	47.10	.	.	.	.
	02MAR89	.	1,010	243,000	-0.59	.	.	.	.	.	.	.
	18APR89	.	.	296.00	.	4,230.00	47.30	29.00	.	.	.	.
	18OCT89	.	.	.	.	.	.	.	.	.	.	.
6-39-0	10MAR89	242,000	40,700	41.50	.	.	2.94	.	15.10	0.24	.	.
6-39-39	30MAR89 26APR89 15NOV89	.	<2,500 7 190	7.84 5.13	.	.	4.29 3.80	.	-1.82 7.46	3.01 -2.36	.	0.029
6-39-79	23FEB89 15MAR89	.	6,300	.	.	.	.	.	.	.	.	0.031
6-40-1	10MAR89 10APR89 16OCT89	.	226,000 41,600 235,000	42.60 0.29 45.30 -0.19	.	345.00	.	.	-2.46 0.38	0.71 3.06	.	.
6-40-33A	03FEB89 10APR89	-69 -47	<2,500 <2,500	3.01 7.84	.	.	0.29 0.41	.	-0.20 4.54	-0.36 0.35	.	.
6-40-39	05DEC89	57,700	<500	5.98	-0.05	.	3.74	1.92	7.95	0.71	-0.0023	.
6-40-62	10MAR89 10APR89 22NOV89	.	88,100 51,200 82,300	7.02 48,300	.	4.38	.	1.10	.	.	3.68	0.028

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	Tritium, pCi/L	Nitrate, µg/L	Gross Beta, pCi/L	Strontium 90, pCi/L	Technetium 99, pCi/L	Gross Alpha, pCi/L	Uranium, (total), pCi/L	Cobalt 60, pCi/L	Cesium 137, pCi/L	Plutonium 239,240, pCi/L	Iodine 129, pCi/L
6-41-1	10MAR89 10APR89 16OCT89	244,000 233,000	41,900 39,000	42.60 44.80	0.09 0.06	289.00	2.78 5.15	3.16 2.75	3.51 4.05	-0.75 3.51	.	0.073
6-41-23	15MAR89 07APR89 09NOV89	88,700 73,100	12,600 10,400	11.60 10.40	.	41.20	0.19 2.37	.	.	.	.	1.550
6-41-40	05DEC89	232,000	18,800	16.78	-0.03	.	4.63	2.51	0.61	0.63	-0.0002	.
6-42-2	03FEB89	229,000	41,500	.	.	.	.	.	.	.	.	.
6-42-12A	10MAR89 06APR89 18OCT89	286,000 265,000	39,400 39,500	31.00 27.00	0.15 0.27	251.00	.	2.19 1.13	-0.20 6.22	5.03 1.88	.	0.246
6-42-40A	06FEB89 15FEB89 07APR89 31MAY89 10AUG89	237 -25 180 -94 24	<2,500 600 <2,500 700 6,500	3.97 1.32 5.12 2.72 12.70	0.01 .	.	1.07 2.32 -0.38 -0.12 2.98	0.68 0.70 0.71 -6.75	-1.03 .	0.00 3.78	-0.0002 0.0034	.
	05JAN89 13JAN89 06FEB89 08FEB89 02MAR89 26APR89 28AUG89 06OCT89 11DEC89	4,510 2,200 <2,500 5 -87 <2,500 <2,500 <2,500 72	.	7.42 8.13 .	-0.24	.	.	.	1.96 -0.19	1.92 1.41	.	.
	23FEB89 10MAR89 26APR89 28AUG89	2,970 .	<2,500	.	.	-0.96	.	.	.	.	.	0.045
	3,830	<2,500	.	10.20	-0.66	.	2.48	.	.	.	.	.
	72,800 73,700 73,200 79,500	6,400 6,200 6,400 6,500	1.64 7.32 7.29 10.80	.	.	0.77 2.18 1.19 2.37	1.36	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-43-3	10MAR89 14APR89 16OCT89	234,000 231,000	39,600 39,500	38.10 40.50	.	347.00	3.12 2.16	.	4.12 10.50	4.57 0.11	.	0.033
6-43-41E	05DEC89	95,400	9,300	6.69	0.10	.	4.21	1.84	-0.58	-0.71	-0.0002	.
6-43-41F	05DEC89	32	9,500	10.20	-0.18	.	3.11	2.39	-2.49	-0.77	-0.0024	.
6-43-42J	24FEB89 15JUN89 09AUG89 09AUG89	2,620 1,790 1,080 1,160	1,800 1,800 1,400 1,400	4.52 7.18 5.85 5.57	.	.	2.34 1.62 1.03 1.91	1.51	.	.	.	.
6-43-43	24FEB89 24FEB89 15JUN89 09AUG89	338 432 283 287	700 700 1,100 1,100	3.99 4.23 4.08 11.90	.	.	0.30 0.41 -0.04 0.53	.	.	.	.	.
6-43-45	06DEC89	342	1,000	6.86	-0.06	.	2.59	1.21	7.11	-0.22	0.0022	.
6-43-88	25APR89	-159	19,200	6.65	.	.	0.81	.	.	.	.	.
6-44-4	03FEB89	146,000	15,600	.	.	.	.	.	0.98	0.96	.	.
6-44-42	17FEB89 15JUN89 08AUG89	1,140 346 437	1,400 1,300 1,500	3.89 6.07 5.94	.	.	1.56 0.79 1.36	.	.	.	.	.
6-44-43B	20DEC89 20DEC89	40,100 41,400	7,000 7,200	7.79 5.18	-0.49 -0.23	1.82 1.86	2.26 1.61	1.51 1.89	9.09 3.46	-4.42 -9.51	0.0153 -0.0002	.
6-44-64	12JAN89 27MAR89 25APR89	.	55,000	.	.	.	.	.	.	.	.	-0.024
6-45-2	10MAR89 14APR89 16OCT89	.	39,100	34.10	.	.	3.68 5.49	.	-0.61 1.89	-6.30 1.41	.	0.069
6-45-42	13JAN89 16JAN89 08FEB89 02MAR89 09OCT89	44,500 6,900 42,500 39,100 41,400	7,000 7,100 2.95 6,500 6,000	3.50 0.35 0.17 2.85 5.19	0.35 .	2.52 1.81 -0.04 1.49	1.74 1.72 1.86 1.49	2.27 2.35 2.46 0.83	2.47 -3.13 -1.77 -3.60	-0.0022 -0.0041 -0.0048 0.0018	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-45-69A	27MAR89 10APR89	-32	21,700	3.45	..	..	1.71	..	..	..	..	0.013
6-46-4	10MAR89 06APR89 10NOV89	151,000 153,000	29,600 28,800	23.30 23.30	..	252.00	.. 2.58 2.82	..	..	..	..	0.043
6-46-21B	24MAR89 06APR89 09NOV89	49,000 48,100	17,400 16,700	10.30 6.79	..	..	3.37 2.40	..	..	..	..	-0.059
6-47-5	03FEB89 06APR89 16OCT89	167,000 232,000 200,000	27,800 34,600 30,000	12.10 16.60 19.80	-0.11 -0.24	..	1.61 -0.01 1.69	2.37 2.33	-1.62 3.24	-4.13 -2.63	..	..
6-47-35A	10MAR89	-43	14,400	3.41	..	..	2.90	..	..	..	..	-0.040
C 83	6-47-46A	10MAR89 07APR89 27NOV89	-23 53	13,700 13,300	8.64 10.90	..	..	.. 2.34 2.14	2.35 -1.86	5.29 -0.25	..	-0.029
	6-47-50	21FEB89	288	4,200	..	..	..	..	..	..	..	..
	6-47-60	10MAR89 07APR89	-176	23,300	6.21	..	..	.. 1.88	4.09	-6.51	..	0.022
6-48-7	10MAR89 06APR89 10NOV89	140 84	6,800 4,600	3.59 1.60	..	-1.13	.. 1.41 0.76	..	..	..	..	-0.015
	6-48-18	24MAR89 06APR89 09NOV89	-10 92	5,600 4,300	7.93 8.74	..	.. 2.06 2.45	..	..	..	..	-707.000
	6-48-71	28MAR89 25APR89 08DEC89	-102 -90	23,700 22,700	2.09 3.81	..	.. 2.70 1.99	..	..	..	..	0.067
6-49-13E	24MAR89 26APR89 26OCT89	7 -167	6,100 6,000	6.09 5.67	..	1.15	.. 1.13 0.73	..	..	..	..	-0.057
	6-49-28	24MAR89 05APR89 19OCT89	1,650 2,000	<2,500 <2,500	7.50 5.25	..	.. 4.53 2.21	..	..	..	..	0.037

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, ug/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr 90, pCi/L</u>	<u>Tc 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-49-55A	22FEB89	.	94,700	.	.	.	.	.	.	.	.	.
	22FEB89	.	94,400	.	.	.	.	.	.	.	.	.
	22FEB89	.	94,400	.	.	.	.	.	.	.	.	.
	24MAR89	.	.	.	.	3,190.00	.	.	.	.	.	0.060
	05APR89	3,620	73,100	317.00	-0.17	.	1.70	2.50	27.30	1.49	.	.
	17OCT89	2,910	63,000	278.00	0.06	.	3.46	3.69	43.40	-2.21	.	.
6-49-55B	21FEB89	14	<2,500	.	.	.	.	.	.	.	.	.
	24MAR89	.	.	.	.	2.07	.	.	.	.	.	0.025
	05APR89	.	.	5.29	-0.14	.	3.63	.	.	.	.	.
	28AUG89	53	<2,500	.	.	.	2.36	.	.	.	.	.
	20OCT89	.	.	5.90	0.34	.	.	.	.	.	.	.
6-49-57	17JAN89	.	57,800	.	.	.	.	.	.	.	.	.
	17JAN89	.	58,000	.	.	.	.	.	.	.	.	.
	17JAN89	.	58,700	.	.	.	.	.	.	.	.	.
	27MAR89	.	.	.	.	11.80	.	.	.	.	.	.
	05APR89	5,330	52,900	169.00	0.13	.	.	1.93	14.90	-0.36	.	0.694
	20OCT89	5,130	43,500	115.00	-0.13	.	.	1.52	7.66	2.10	.	.
6-49-79	12JAN89	.	40,600	.	.	.	.	.	.	.	.	.
	21APR89	-97	41,200	6.00	.	.	0.02	.	.	.	.	.
	20OCT89	38	41,500	5.17	.	.	1.11	.	.	.	.	.
6-49-100C	03MAR89	-79	13,200	6.05	-0.14	.	0.12	.	.	.	.	.
	21APR89	-144	12,900	7.97	-0.07	.	2.57	.	.	.	.	.
	24OCT89	-125	13,000	5.87	-0.01	.	1.88	.	.	.	.	.
6-50-30	05APR89	186	<2,500	13.80	0.12	.	10.50	.	.	.	.	.
	19OCT89	221	<2,500	5.79	0.00	.	2.36	.	.	.	.	.
6-50-42	03FEB89	.	.	3.72	0.11	.	1.82	.	.	.	.	.
	27MAR89	.	.	.	.	.	.	.	.	.	.	0.030
	05APR89	4,010	3,100	7.00	.	.	1.34	.	.	.	.	.
	07APR89	.	.	.	-0.17	.	.	.	.	.	.	.
	17OCT89	.	.	.	-0.36	.	.	.	.	.	.	.
6-50-45	19OCT89	4,540	4,000	5.67	.	.	2.03	.	.	.	.	.
	21FEB89	99	<2,500	.	.	.	.	.	.	.	.	.
	30MAR89	.	.	.	.	-0.24	.	.	.	.	.	-0.034
	05APR89	.	.	5.65	-0.13	.	6.81	.	.	.	.	.
	28AUG89	54	<2,500	5.68	-0.04	.	1.20	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Techneium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-50-48B	21FEB89	50	<2,500	.	.	-1.90	.	.	.	.	.	-0.007
	30MAR89	.	.	.	13.20	0.53	.	0.29	.	.	.	.
	19APR89	.	.	.	.	.	.	.	.	.	.	.
	28AUG89	-24	<2,500	.	11.00	0.14	.	0.35	.	.	.	.
	20OCT89	.	.	.	.	.	.	.	.	.	.	.
6-50-53	17JAN89	.	625,000	.	.	.	.	.	.	.	.	.
	27MAR89	.	.	.	.	391.00	.	.	.	.	.	.
	28APR89	4,350	596,000	1,440.00	-0.36	.	0.81	.	532.00	6.24	.	0.023
6-50-85	21APR89	-122	25,000	4.04	.	.	0.67	.	.	.	.	.
	20OCT89	43	25,500	5.25	.	.	0.50	.	.	.	.	.
6-51-46	21FEB89	-65	<2,500	.	.	.	.	.	.	.	.	.
	27MAR89	.	.	.	.	1.97	.	.	.	.	.	0.001
	21APR89	.	.	9.93	0.58	.	0.49	.	.	.	.	.
	31AUG89	10	<2,500	.	6.53	0.01	.	0.44	.	.	.	.
	19OCT89	.	.	.	.	.	.	.	.	.	.	.
6-51-63	27MAR89	.	.	.	.	.	.	.	.	.	.	.
	21APR89	-171	18,900	3.14	.	.	.	.	5.90	.	.	0.063
	06DEC89	-41	18,900	3.60	.	.	.	.	1.81	.	.	.
6-51-75	21APR89	-23	2,700	4.76	.	.	2.55	.	.	.	.	.
	08DEC89	26	<2,500	4.72	.	.	0.72	.	.	.	.	.
6-52-19	28MAR89	.	.	.	.	.	.	.	.	.	.	.
	24APR89	-184	4,600	5.69	.	.	2.73	.	.	.	.	0.144
	24OCT89	56	5,000	7.74	.	.	0.53	.	.	.	.	.
6-52-46A	21FEB89	-47	<2,500	.	.	.	.	.	.	.	.	.
	27MAR89	.	.	.	8.92	-0.20	1.41	.	.	.	.	-0.023
	21APR89	.	.	.	.	.	.	1.09	.	.	.	.
	31AUG89	187	<2,500	.	9.42	0.03	.	3.97	.	.	.	.
	23OCT89	.	.	.	.	.	.	.	.	.	.	.
6-52-48	21FEB89	7	<2,500	.	.	.	.	.	.	.	.	.
	27MAR89	.	.	.	.	3.04	.	.	.	.	.	0.033
	25APR89	.	.	7.82	0.07	.	1.89	.	.	.	.	.
	31AUG89	-133	<2,500	.	7.51	0.18	.	-0.02	.	.	.	.
	23OCT89	.	.	.	.	.	.	.	.	.	.	.
6-53-47A	05JAN89	.	.	115.00	58.50	.	1.38	.	0.19	-5.30	.	.
	13JAN89	.	.	116.00	57.70	.	3.60	.	-5.48	4.59	.	.
	08FEB89	.	.	94.90	69.40	.	2.32	.	3.47	0.38	.	.
	09OCT89	.	.	147.00	63.70	.	1.37	.	8.29	-1.00	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-53-47B	31JAN89 19APR89	.	.	188.00	106.00	.	4.02	.	3.59	-4.24	.	.
6-53-48A	31JAN89 19APR89	.	.	197.00	108.00	.	8.02	.	-0.20	-2.29	.	.
6-53-48B	01FEB89 19APR89	.	.	209.00	124.00	.	5.94	.	0.82	5.29	.	.
6-53-50	03MAR89 27MAR89 19APR89	48	<2,500	.	.	2.22	.	.	-1.57	-1.20	.	.
6-53-55A	24FEB89 31AUG89	.	.	4.18	0.36	.	-0.54	.	-0.41	1.38	.	.
6-53-103	23MAR89	-10	<2,500	7.18	.	-1.07	-0.25	.	.	.	.	0.008
6-54-34	19APR89	14	11,900	6.35	.	.	2.46	.	.	.	.	.
6-54-45A	19APR89 23OCT89	117 -67	<2,500 <2,500	5.13 16.70	.	.	5.49 31.10	.	.	.	.	.
6-54-48	31JAN89 25APR89	.	.	67.80 82.20	38.20 42.60	.	2.11 1.06	.	-0.40 1.01	2.76 0.75	.	.
6-54-49	31JAN89 12APR89	.	.	30.20 27.00	10.40 11.40	.	0.29 2.05	.	.	.	.	.
6-54-57	24FEB89 27MAR89 12APR89 31AUG89 23OCT89	247 .	<2,500 .	.	.	0.81	.	.	.	.	.	-0.029
6-55-40	27MAR89	6	20,500	.	.	.	.	.	.	.	.	.
6-55-44	27MAR89	98	<2,500	.	.	.	.	.	.	.	.	.
6-55-50A	28MAR89 12APR89 23OCT89	-95 -58	<2,500 <2,500	30.40 38.50	0.04 0.21	-1.07	.	0.05 0.01	1.22 5.16	-5.92 -1.21	.	-0.023

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Techneium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-55-50C	23FEB89 28MAR89 12APR89 12APR89	.	.	9.22	0.23	.	1.09	.	.	.	.	-0.012
6-55-50D	23FEB89 28MAR89 03APR89 03APR89 31AUG89	.	.	3.74	-0.00	.	4.75	.	.	.	.	-0.006
6-55-70	28MAR89	66	<2,500	11.20	.	.	.	1.59	.	.	.	.
6-55-76	03APR89	.	<2,500	.	.	.	.	.	.	.	.	.
6-55-89	28MAR89	25	<2,500	4.05	0.43	.	.	0.83	7.37	5.54	.	.
6-56-43	28MAR89 03APR89 23OCT89	.	.	.	.	.	2.92	.	.	.	.	0.026
6-56-53	03MAR89 28MAR89 03APR89 31AUG89 23OCT89	-21	<2,500	.	.	-1.94	.	.	.	.	.	0.050
6-57-29A	03APR89	579	3,100	7.57	.	.	1.56	.	.	.	.	.
6-59-58	18JAN89 18JAN89 03APR89	.	.	6.54	0.10	18.10	1.18	.	.	.	.	0.056
6-59-80B	03APR89 24OCT89	.	<2,500	.	.	.	.	0.57	.	.	.	.
6-60-57	29MAR89 03APR89	.	<2,500	8.51	.	.	.	0.14	.	.	.	-0.029
6-60-60	18JAN89	6,510	3,200	40.10	0.19	139.00	.	0.74	5.86	-2.83	.	-0.017
6-61-37	03APR89	518	3,600	3.96	.	.	1.78	.	.	.	.	.
6-61-41	03APR89	239	<2,500	11.00	.	.	2.32	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-61-62	18JAN89 04APR89	8,540	48,800	76.60	-0.56	548.00	.	1.22	5.33	-4.85	.	0.121
6-61-66	18JAN89 04APR89	121	5,100	7.13	-0.24	-0.83	.	1.61	0.21	-2.98	.	0.026
6-62-31	03APR89	.	64,400	.	.	.	.	.	.	.	.	.
6-63-25A	03APR89 06DEC89	96 20	18,300 17,500	4.46 7.06	.	.	6.22 2.71	.	.	.	.	.
6-63-55	03APR89 08DEC89	930 917	6,600 7,700	17.50 20.70	.	.	.	1.16 0.76	.	.	.	.
6-63-58	18JAN89 18JAN89 04APR89 08DEC89	.	.	34.60 45.10 45.90	0.14	.	0.58	.	.	.	.	0.005
6-63-90	19APR89	81	5,400	5.21	.	.	2.15	.	.	.	.	.
6-64-27	19JAN89	296	42,300	.	.	.	.	.	.	.	.	.
6-64-62	18JAN89 04APR89	8,270	37,700	69.10	0.05	350.00	.	1.84	14.00	1.13	.	0.031
6-65-23	19JAN89	94	18,300	.	.	.	.	.	.	.	.	.
6-65-50	29MAR89 04APR89 08DEC89	685 701	4,210 6,900	8.90 11.50	.	.	.	0.76 1.44	.	.	.	0.041
6-65-59A	19JAN89 04APR89	1,300	11,200	22.50	0.01	972.00	.	0.84	-0.19	-0.35	.	0.034
6-65-72	18JAN89 05APR89 23OCT89	2,650 2,320	20,100 17,500	17.20 16.30	.	.	.	1.85 1.65	.	.	.	0.012
6-65-83	20JAN89 13APR89 08DEC89	.	5,400 5,300 923	8.38 9.74	.	.	1.66 1.27	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, μg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Sr90, pCi/L</u>	<u>Tc99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>	
6-66-23	24APR89 25OCT89	.	42,500 42,500	.	.	.	.	.	.	.	.	.	
6-66-38	18APR89 07DEC89	.	<2,500 <2,500	.	.	.	.	.	.	.	.	.	
6-66-39	18APR89 07DEC89	.	<2,500 <2,500	.	.	.	.	.	.	.	.	.	
6-66-58	19JAN89 18APR89 24OCT89	797 778	7,100 10,500	10.20 20.60	-0.31 0.39	10.40	.	0.81 0.69	-2.86 3.22	-3.15 2.71	.	-0.007	
6-66-64	18JAN89 19APR89 23OCT89	6,070 6,220	22,500 23,500	61.30 48.00	0.16 -0.49	376.00	.	1.27 1.00	9.39 11.40	2.39 -2.71	.	-0.020	
C 68	6-66-103	19APR89	194	<2,500	3.97	.	.	-0.09	.	0.98	3.13	.	
	6-67-51	18APR89 31OCT89	360 545	<2,500 2,500	.	.	.	.	0.87 2.31	.	.	.	
	6-67-86	13JAN89 19APR89 23OCT89	.	3,000 3,200 3,500	6.60 4.12	.	.	-0.43 0.73	.	.	.	.	
	6-67-98	19APR89 23OCT89	178 -330	4,600 5,000	6.84 3.82	.	.	2.00 2.13	.	.	.	.	
	6-68-105	23MAR89	95	<2,500	.	.	.	.	.	.	.	.	
	6-69-38	18APR89 24OCT89	-154 -8	<2,500 <2,500	20.90 5.14	.	.	1.79 0.95	.	.	.	.	
	6-70-68	26JAN89 20APR89 09NOV89	.	5,000 5,000	14.10 18.40	-0.13 -0.02	136.00	.	0.77 1.17	-1.71 -2.31	-1.65 1.19	.	0.049
	6-71-30	20APR89 26OCT89	90 9	32,100 34,500	6.64 6.38	.	.	6.19 5.92	.	.	.	.	
	6-71-52	18JAN89 22FEB89 18APR89 24OCT89	.	7,500 6,900 6,500	.	.	.	.	1.72 1.62	.	.	-0.037	

TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, µg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-71-77	18JAN89 20APR89 23OCT89	2,530 3,220	9,600 13,500	23.90 25.70	.	.	.	1.54 1.22	.	.	.	0.035
6-72-73	18JAN89	1,280	4,500	12.50	.	.	0.07	.	.	.	.	-0.068
6-72-88	19APR89 23OCT89	2,440 4,220	5,500 8,000	6.73 2.18	.	.	1.34 -0.38	.	.	.	.	.
6-72-92	18JAN89	1,550	8,800	2.94	.	.	0.50	.	.	.	.	.
6-73-61	19JAN89 16MAR89 11APR89	.	8,800	.	.	.	.	.	.	.	.	0.059
6-74-44	11APR89 09NOV89	180 61	7,100 7,600	2.16 3.82	.	.	2.17 2.57	.	.	.	.	.
6-77-36	20JAN89 26JAN89	.	56,700 58,900	.	.	.	.	.	.	.	.	.
6-77-54	11APR89 09NOV89	22 41	8,400 7,600	4.18 4.83	.	.	2.28 1.94	.	.	.	.	.
6-78-62	19JAN89 26JAN89	.	9,000 9,200	.	.	.	.	.	.	.	.	.
6-80-43P	28MAR89	14	<2,500	6.18	.	-2.00	-0.32	.	.	.	.	.
6-80-43Q	28MAR89	150	<2,500	6.08	.	-1.99	-0.34	.	.	.	.	.
6-80-43R	28MAR89	101	<2,500	4.76	.	-1.61	-0.20	.	.	.	.	.
6-80-43S	28MAR89	286	<2,500	12.30	.	-0.79	9.82	.	.	.	.	.
6-81-58	16JAN89 03MAR89 11APR89 18SEP89 28NOV89	.	2,700 2,900 2,600 88 158	0.87 0.51	.	.	0.42	1.21	1.78	1.21	.	.
6-83-47	16JAN89 16MAR89	.	6,000 710	.	0.76	-1.35	.	.	.	.	.	.

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TABLE C.3. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Tritium, pCi/L</u>	<u>Nitrate, μg/L</u>	<u>Gross Beta, pCi/L</u>	<u>Strontium 90, pCi/L</u>	<u>Technetium 99, pCi/L</u>	<u>Gross Alpha, pCi/L</u>	<u>Uranium (total), pCi/L</u>	<u>Cobalt 60, pCi/L</u>	<u>Cesium 137, pCi/L</u>	<u>Plutonium 239,240, pCi/L</u>	<u>Iodine 129, pCi/L</u>
6-84-35A0	26JAN89	260	8,200	.	.	.	.	.	.	.	.	.
6-87-55	11APR89 09NOV89	74,100 80,800	17,100 15,100	5.58 4.25	.	.	0.93 1.06	.	.	.	.	.
6-89-35	18APR89 26OCT89	564 543	10,600 10,000	5.04 7.09	.	.	2.70 2.75	.	.	.	.	.
6-90-45	13APR89 26OCT89	2,060 2,150	6,200 3,500	5.23 2.66	.	.	0.98 0.42	.	.	.	.	.
6-96-49	16JAN89 11APR89 26OCT89	.	16,300 13,700 11,000	.	.	.	0.88 1.17	0.93 0.47	.	.	.	.
6-97-43	16JAN89 13APR89	.	17,700 16,600	4.40	.	.	2.00	.	.	.	.	.
6-97-51A	13APR89 01NOV89	14,000 13,400	20,500 19,500	3.82 4.76	.	.	-0.16 0.59	1.22 1.39	.	.	.	.
6-101-48B	16MAR89 24APR89 01NOV89	-6 143	<2,500 <2,500	2.04 2.22	-0.16 0.03	-1.52	0.48 0.86	.	.	.	.	.
11-41-13C	30JAN89	.	7,900	.	.	.	.	.	.	.	.	.

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TABLE C.4. Analytical Results for Key Volatile Organic Constituents

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
1-H3-1	24MAY89	<5	19	<5	<5	<5	<5	<5	44
1-H3-2A	06JAN89	<5	<5	<5	<5	<5	<5	<5	13
	26MAY89	<5	7	<5	<5	<5	<5	<5	10
	02AUG89	<5	<5	<5	<5	<5	<5	<5	15
	11OCT89	<5	<5	<5	<5	<5	<5	<5	18
1-H3-2B	26MAY89	<5	11	<5	<5	<5	<5	<5	12
	26MAY89	1	10	<5	<5	<5	<5	<5	-
1-H3-2C	01JUN89	<5	<5	<5	<5	<5	<5	<5	13
1-H4-3	09JAN89	<5	<5	<5	<5	<5	<5	<5	29
	25MAY89	<5	14	<5	<5	<5	<5	<5	30
	03AUG89	<5	<5	<5	<5	<5	<5	<5	15
	11OCT89	<5	<5	<5	<5	<5	<5	<5	18
1-H4-4	09JAN89	<5	<5	<5	<5	<5	<5	<5	8
	25MAY89	<5	<5	<5	<5	<5	<5	<5	10
	03AUG89	<5	<5	<5	<5	<5	<5	<5	12
	11OCT89	<5	<5	<5	<5	<5	<5	<5	16
1-H4-5	06JAN89	<5	<5	<5	<5	<5	<5	<5	15
	20JUN89	<5	<5	<5	<5	<5	<5	<5	17
	11OCT89	<5	11	<5	<5	<5	<5	<5	13
1-H4-6	09JAN89	<5	<5	<5	<5	<5	<5	<5	16
	24MAY89	<5	<5	<5	<5	<5	<5	<5	15
	04AUG89	<5	<5	<5	<5	<5	<5	<5	15
	11OCT89	<5	<5	<5	<5	<5	<5	<5	9
1-H4-7	06JUN89	<5	9	<5	<5	<5	<5	<5	16
	18OCT89	<5	<5	<5	<5	<5	<5	<5	12
1-H4-8	12MAY89	<5	8	<5	<5	<5	<5	<5	17
1-H4-9	06JAN89	<5	10	<5	<5	<5	<5	<5	17
	15MAY89	<5	10	<5	<5	<5	<5	<5	23
1-H4-10	18MAY89	<5	5	<5	<5	<5	<5	<5	42
1-H4-11	12MAY89	<5	17	<5	<5	<5	<5	<5	24

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TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
1-H4-12A	06JAN89 23MAY89 02AUG89 11OCT89	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	12 8 12 14
1-H4-12B	06JAN89 22MAY89 02AUG89	. .5 .5	. .4 .4	. .5 .5	. .5 .5	. .5 .5	. .5 .5	. .5 .5	14 8 12
1-H4-12C	06JAN89 22MAY89 02AUG89 11OCT89	. .5 .5 .5	. .9 .9 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	15 8 8 8
1-H4-13	23MAY89 23MAY89	. .5	17 18	. .5	. .5	. .5	. .5	. .5	19
1-H4-14	18MAY89 17OCT89	. .5	28	. .5	. .5	. .5	. .5	. .5	24 28
1-H4-15A	25MAY89	. .5	5	. .5	. .5	. .5	. .5	. .5	9
1-H4-15B	25MAY89	. .5	3	. .5	. .5	. .5	. .5	. .5	13
1-H4-16	23MAY89	. .5	26	. .5	. .5	. .5	. .5	. .5	32
1-H4-17	23MAY89	. .5	7	. .5	. .5	. .5	. .5	. .5	20
1-H4-18	06JAN89 23MAY89 02AUG89 11OCT89	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	26 22 24 35
1-H-2	09MAR89 26JUL89 21DEC89	. .5 .5	. .5 .5	. .5 .5	. .5 .5	. .5 .5	. .5 .5	. .5 .5	5 7 6
1-H-3	09MAR89 26JUL89 29SEP89 08NOV89	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	. .5 .5 .5	6 6 6 5
1-H-4	09MAR89 26JUN89	. .5	. .5	. .5	. .5	. .5	. .5	. .5	4,690 5

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TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, µg/L</u>	<u>1,1,1-trichloroethane, µg/L</u>	<u>Chloroform, µg/L</u>	<u>Perchloroethylene, µg/L</u>	<u>Carbon Tetrachloride, µg/L</u>	<u>Trichloroethylene, µg/L</u>	<u>Trans-dichloroethylene, µg/L</u>	<u>Total Organic Halogens, µg/L</u>
1-N-14	29SEP89		5	4	5	5	5	5	7
	08NOV89		5	8	5	5	5	5	23
	09MAR89								
	27JUL89								
	26SEP89								
	26SEP89	1							
1-N-16	14NOV89		5	4	5	5	5	5	4
	14NOV89		5	4	5	5	5	5	4
	13NOV89		5	5	5	5	5	5	12
	10NOV89		5	5	5	5	5	5	7
	13NOV89		5	4	5	5	5	5	17
	11DEC89		5	5	5	5	5	5	22
1-N-24	06DEC89		5	5	5	5	5	5	10
1-N-25	06DEC89		5	5	4	5	5	5	12
1-N-26	12DEC89		5	3	5	5	5	5	8
1-N-27	06MAR89								23
	27JUN89								10
	12DEC89								10
1-N-29	06MAR89		5	5	5	5	5	5	90
	05MAY89		5	5	5	5	5	5	10
	27JUN89		5	5	5	5	5	5	6
	29NOV89		9	14	5	5	5	5	21
1-N-31	06MAR89		5	4	5	5	5	5	12
	01AUG89		5	5	5	5	5	5	6
	28SEP89		21	20	5	5	5	5	22
	28SEP89		9	9	5	5	5	5	23
	01DEC89	1							16
1-N-32	06MAR89		5	4	5	5	5	5	5
	17JUL89		5	5	5	5	5	5	9
	20SEP89		8	8	5	5	5	5	21
	30NOV89		8	8	5	5	5	5	13

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TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
1-N-33	06MAR89		5	3	5	5	5	5	7
	05MAY89		5	4	5	5	5	5	.
	14JUL89	1	5	3	5	5	5	5	10
	14JUL89		5	11	5	5	5	5	6
	21DEC89		5	11	5	5	5	5	8
	21DEC89	1	5	11	5	5	5	5	10
1-N-36	07MAR89		5	3	5	5	5	5	6
	07MAR89	1	5	4	5	5	5	5	9
	27JUN89		5	5	5	5	5	5	8
	19SEP89		5	8	5	5	5	5	11
	01DEC89		5	8	5	5	5	5	28
1-N-39	21DEC89		5	11	5	5	5	5	11
	21DEC89	1	5	9	5	5	5	5	9
1-N-41	08MAR89		5	3	5	5	5	5	449
	08MAY89		5	3	5	5	5	5	15
	27JUN89		5	5	5	5	5	5	10
	19SEP89		5	5	5	5	5	5	7
	29NOV89		5	5	5	5	5	5	3
1-N-42	07MAR89		5	3	5	5	5	5	15
	19JUL89		5	3	5	5	5	5	17
	20SEP89		5	3	5	5	5	5	19
	29NOV89		5	3	5	5	5	5	5
1-N-47	11DEC89		5	5	5	5	5	5	10
1-N-52	08MAR89		5	3	5	5	5	5	496
	08MAY89		5	3	5	5	5	5	68
	29JUN89		5	4	5	5	5	5	59
	20SEP89		5	4	5	5	5	5	13
	01DEC89		5	4	5	5	5	5	13
1-N-54	01NOV89		5	5	5	5	5	5	13
1-N-55	01NOV89		5	3	5	5	5	5	8
1-N-56	01NOV89		5	5	5	5	5	5	7
1-N-57	02NOV89		5	3	5	5	5	5	8

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TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
1-N-58	02MAR89	1	5	5	5	5	5	5	10
	25JUL89		5	6	5	5	5	5	17
	18SEP89		5	15	5	5	5	5	15
	15NOV89		5	5	5	5	5	5	31
1-N-59	01MAR89	1	5	5	5	5	5	5	13
	01MAR89		5	5	5	5	5	5	13
	17JUL89		5	6	5	5	5	5	14
	18SEP89		5	6	5	5	5	5	12
	16NOV89		5	6	5	5	5	5	19
1-N-60	02MAR89	1	5	5	5	5	5	5	12
	01AUG89		5	9	5	5	5	5	14
	01AUG89		5	10	5	5	5	5	14
	18SEP89		5	10	5	5	5	5	18
	16NOV89		5	10	5	5	5	5	24
	16NOV89		5	10	5	5	5	5	21
1-N-61	02MAR89	1	5	5	5	5	5	5	15
	28JUL89		5	15	5	5	5	5	33
	19SEP89		5	10	5	5	5	5	39
	16NOV89		5	10	5	5	5	5	29
1-N-66	08MAR89	1	5	5	5	5	5	5	14
	02AUG89		5	5	5	5	5	5	12
	29SEP89		5	5	5	5	5	5	15
	08NOV89		5	5	5	5	5	5	15
1-N-67	08MAR89	1	5	5	5	5	5	5	13
	02AUG89		5	5	5	5	5	5	14
	02OCT89		5	5	5	5	5	5	17
	08NOV89		5	5	5	5	5	5	18
1-N-69	08MAR89	1	5	5	5	5	5	5	14
	02AUG89		5	5	5	5	5	5	13
	02OCT89		5	5	5	5	5	5	14
	08NOV89		5	5	5	5	5	5	13
1-N-70	08MAR89	1	5	5	5	5	5	5	133
	08MAY89		5	5	5	5	5	5	7
	18JUL89		5	5	5	5	5	5	5
	29SEP89		5	5	5	5	5	5	9
	29NOV89		5	5	5	5	5	5	2

9 2 1 2 6 3 9 0 1 8 0

TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
2-E16-2	14DEC89		<5	<5	<5	<5	<5	<5	<6
2-E17-1	19JUN89 15AUG89		<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<3 <1
2-E17-5	16MAY89 22JUN89 21SEP89		<5 •	<5 •	<5 •	<5 •	<5 •	<5 •	<6 <3 <1
2-E17-6	16MAY89 21AUG89 25SEP89		•	•	•	•	•	•	<4 <9 <1
2-E17-9	16MAY89 22JUN89 28SEP89		<5	<5	<5	<5	<5	<5	10 <3 <11
2-E17-13	30NOV89		<5	<5	<5	<5	<5	<5	<5
2-E17-14	15MAY89 26JUN89 27SEP89		<5 •	<5 •	<5 •	<5 •	<5 •	<5 •	<5 <3 <0
2-E17-15	17MAY89 17MAY89 27JUL89 21SEP89	1	<5 <5 •	<5 •	<5 •	<5 •	<5 •	<5 •	11 <3 <13 <12
2-E17-16	15MAY89 26JUN89 25SEP89		<5 •	<5 •	<5 •	<5 •	<5 •	<5 •	<5 <6 <8
2-E17-17	12MAY89 23JUN89 21SEP89		<5 •	<5 •	<5 •	<5 •	<5 •	<5 •	<5 •
2-E17-18	19MAY89 23JUN89 27SEP89		<5 •	<5 •	<5 •	<5 •	<5 •	<5 •	<1 <1 •
2-E17-19	15FEB89 14JUL89		<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<5 <5	<3 20

9 2 1 2 6 3 9 0 1 0 1



TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
2-E17-20	14AUG89	1	5	5	5	5	5	5	4
	14AUG89		5	5	5	5	5	5	5
2-E18-1	15FEB89	1	5	5	5	5	5	5	3
	16JUN89		5	5	5	5	5	5	1
	16JUN89		5	5	5	5	5	5	1
	15AUG89		5	5	5	5	5	5	6
2-E18-2	15FEB89	1	5	5	5	5	5	5	5
	26MAY89		5	5	5	5	5	5	4
	08AUG89		5	5	5	5	5	5	4
	31OCT89		5	5	5	5	5	5	4
2-E18-3	29NOV89	1	5	5	5	5	5	5	5
	16FEB89		5	5	5	5	5	5	8
	01JUN89		5	5	5	5	5	5	11
	11AUG89		5	5	5	5	5	5	8
2-E18-4	27NOV89	1	5	5	5	5	5	5	7
	27NOV89		5	5	5	5	5	5	7
	15FEB89		5	5	5	5	5	5	8
	26MAY89		5	5	5	5	5	5	8
2-E24-2	08AUG89	1	5	5	5	5	5	5	6
	21NOV89		5	5	5	5	5	5	6
	13FEB89		5	5	5	5	5	5	5
	22JUN89		5	5	5	5	5	5	5
2-E24-16	14AUG89	1	5	5	5	5	5	5	5
	14FEB89		5	5	5	5	5	5	5
	19JUN89		5	5	5	5	5	5	5
	14AUG89		5	5	5	5	5	5	5
2-E24-17	13FEB89	1	5	5	5	5	5	5	5
	19JUN89		5	5	5	5	5	5	5
	10AUG89		5	5	5	5	5	5	5

9 2 1 2 6 3 9 0 1 8 2

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
2-E24-18	14FEB89	5	5	5	5	5	5	5	8
	19JUN89	5	5	5	5	5	5	5	11
	11AUG89	5	5	5	5	5	5	5	3
2-E25-11	14DEC89	5	5	5	5	5	5	5	12
2-E25-18	28FEB89 23JUN89 30AUG89	..	..	..	..	..	..	..	3
2-E25-20	28FEB89 21JUN89 31AUG89	..	..	..	..	..	..	..	2
2-E25-22	28FEB89 18AUG89 30AUG89 14DEC89	5	5	5	5	5	5	5	5
2-E25-24	28FEB89 21JUN89 30AUG89 20DEC89	5	5	5	5	5	5	5	6
2-E25-25	03JAN89 28FEB89 21JUN89 30AUG89 13DEC89	..	..	..	..	..	..	..	9
2-E25-26	28FEB89 12JUL89 11AUG89 29AUG89 01NOV89	5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	3
2-E25-27	28FEB89 12JUL89 31AUG89	..	..	..	..	..	..	..	1
2-E25-28	24FEB89 20JUL89	5	5	5	5	5	5	5	6

9 2 1 2 6 3 9 0 1 8 3

TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
2-E25-29P	24JUL89	1	5	5	5	5	5	5	14
	29AUG89		5	5	5	5	5	5	13
	29AUG89		5	5	5	5	5	5	14
	27OCT89		5	5	5	5	5	5	13
2-E25-30P	03JAN89		..	..	..	..	..	..	34
	27FEB89		..	..	..	..	..	..	312
	14JUL89		..	..	..	..	..	..	1,160
	30AUG89		..	..	..	..	..	..	123
	12DEC89		..	..	..	..	..	..	160
2-E25-30P	27FEB89		..	..	..	..	..	..	11
	18JUL89		..	..	..	..	..	..	49
	29AUG89		..	..	..	..	..	..	44
2-E25-31	03JAN89		..	..	..	..	..	..	587
	27FEB89		..	..	..	..	..	..	159
	14JUL89		..	..	..	..	..	..	125
	30AUG89		..	..	..	..	..	..	199
	12DEC89		..	..	..	..	..	..	174
2-E25-32P	04JAN89		..	..	..	..	..	..	4
	24FEB89		..	..	..	..	..	..	2
	13JUL89		..	..	..	..	..	..	5
	29AUG89		..	..	..	..	..	..	3
	31OCT89		..	..	..	..	..	..	4
	12DEC89		..	..	..	..	..	..	7
2-E25-33	31JAN89		..	..	..	..	..	..	4
	02MAR89		..	..	..	..	..	..	1
	27JUL89		..	..	..	..	..	..	1
	31AUG89		..	..	..	..	..	..	1
	12DEC89		..	..	..	..	..	..	1
2-E25-34	27FEB89		..	..	..	..	..	..	2
	27FEB89		..	..	..	..	..	..	2
	17JUL89		..	..	..	..	..	..	1
	30AUG89		..	..	..	..	..	..	1
	31OCT89		..	..	..	..	..	..	1
2-E25-35	27FEB89		..	..	..	..	..	..	3
	17JUL89		..	..	..	..	..	..	10

9 2 1 2 6 3 9 0 1 8 4

TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
	17JUL89 30AUG89 30OCT89	1	5	5	5	5	5	5	5
2-E25-36	14FEB89 19JUN89 24OCT89		5	5	5	5	5	5	5
2-E25-37	21DEC89		-	-	-	-	-	-	-
2-E25-38	20DEC89		-	-	-	-	-	-	-
2-E27-8	13MAR89 27JUL89 08SEP89		-	-	-	-	-	-	-
2-E27-9	13MAR89 13MAR89 27JUL89 06SEP89	1	-	-	-	-	-	-	-
2-E27-10	13MAR89 21JUL89 06SEP89		-	-	-	-	-	-	-
2-E28-26	16MAR89 27JUL89 07SEP89 07NOV89		-	-	-	-	-	-	-
2-E28-27	15MAR89 28JUL89 28JUL89 07SEP89	1	-	-	-	-	-	-	-
2-E32-2	13MAR89 01AUG89 06SEP89		5	5	5	5	5	5	5
2-E32-3	06SEP89		5	5	5	5	5	5	5
2-E32-4	01MAR89 13MAR89		5	5	5	5	5	5	5

9 2 1 2 6 3 9 0 1 8 5

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
	16JUN89 19JUL89 08SEP89		•	•	•	•	•	•	47
2-E33-28	16MAR89 01AUG89 12SEP89 12SEP89	1							
2-E33-29	16MAR89 01AUG89 07SEP89								
2-E33-30	14MAR89 01AUG89 07SEP89								
2-E34-1	04DEC89								
2-E34-2	15MAR89 01AUG89 06SEP89 27NOV89								
2-E34-3	14MAR89 31JUL89 07SEP89								
2-E34-5	15MAR89 31JUL89 06SEP89								
2-E34-6	16MAR89 31JUL89 06SEP89								
2-W6-2	04JAN89 09MAY89 21JUL89 21JUL89 07SEP89	1	•			102 99 102 113			74 92 87 75 70

9 2 | 2 6 3 9 0 | 8 6

TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
2-W7-1	10MAY89 10JUL89 07SEP89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	4 1 3
2-W7-2	20MAR89 20JUL89 07SEP89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	58 146 47
2-W7-3	20MAR89 28JUL89 15SEP89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	3 10 197
2-W7-4	22MAR89 24JUL89 13SEP89 20NOV89	8 5 5 5	5 6 6 5	5 6 6 5	5 5 5 5	222 220 189	5 5 5	5 5 5	148 855 148 176
2-W7-5	17MAR89 25JUL89 08SEP89	5 5 5	5 5 5	5 5 5	5 5 5	34 27 29	5 5 5	5 5 5	31 32 30
2-W7-6	17MAR89 26JUL89 08SEP89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	4 6 5
2-W8-1	12MAY89 10JUL89 12SEP89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	10 8 8
2-W9-1	12MAY89 10JUL89 11SEP89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	4 4 14
2-W10-13	03JAN89 22MAR89 25JUL89 13SEP89 13SEP89	5 8 5 5 7	5 5 5 5 5	5 5 5 5 5	5 5 5 5 5	7 13 18 10 12	5 5 5 5 5	5 5 5 5 5	60 31 25 27 16
2-W10-14	03JAN89 21MAR89 27JUL89 15SEP89	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	12 8 8 8

9 2 1 2 6 3 9 0 1 8 7

TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
2-W15-12	05JUN89		<5	26	<5	1,920	10	<5	.
2-W15-15	15MAY89		<5	<3	<5	440	<5	<5	520
	11JUL89		<5	9	<5	380	<5	<5	378
	12SEP89		<5	8	<5	543	<5	<5	499
2-W15-16	09MAY89		<5	33	<5	6,650	5	<5	3,500
	25JUL89		<5	52	<5	8,250	6	<5	6,110
	22SEP89		<5	42	<5	7,100	7	<5	5,370
2-W15-17	31MAY89		<5	<5	<5	<5	<5	<5	14
	27SEP89		<5	<3	<5	<5	<5	<5	<8
2-W15-18	15MAY89		<5	12	<5	1,710	<5	<5	1,260
	11JUL89		<5	27	<5	1,580	<5	<5	1,100
	25SEP89		<5	<5	<5	189	<5	<5	1,150
2-W18-4	06JUN89		<5	632	<5	194	<5	<5	.
2-W18-21	22MAR89		8	<5	<5	146	<5	<5	109
	16MAY89		<5	<5	<5	139	<5	<5	120
	16MAY89	1	<5	<5	<5	148	<5	<5	123
	12SEP89		<5	4	<5	138	<5	<5	105
2-W18-22	15JUN89		<5	<5	<5	<5	<5	<5	<2
	31JUL89		<5	<5	<5	<5	<5	<5	<0
	22SEP89		<5	<5	<5	<5	<5	<5	<5
2-W18-23	03JAN89		<5	<4	<5	195	<5	<5	460
	11MAY89		<5	5	<5	732	<5	<5	629
	24JUL89		<5	<5	<5	<5	<5	<5	600
	31AUG89		<5	8	<5	760	<5	<5	.
	22SEP89		<5	7	<5	611	<5	<5	476
2-W18-24	04JAN89	<13	23	<13	575	<13	<13	<13	695
	11MAY89	<5	16	<5	945	<5	<5	<5	831
	28JUL89	<5	13	<5	650	<5	<5	<5	527
	25SEP89	<5	17	<5	737	<5	<5	<5	624
2-W19-19	31OCT89	<5	<5	<5	10	<5	<5	<5	25
2-W19-20	30OCT89	<5	<3	<5	23	<5	<5	<5	26

9 2 1 2 6 3 9 0 1 8 8

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>	
2-W19-21	02NOV89		<5	<5	<5	<5	<5	<5	10	
2-W19-23	27OCT89		<5	<4	<5	20	<5	<5	26	
2-W19-24	30OCT89		<5	<4	<5	14	<5	<5	21	
2-W19-26	27OCT89		<5	<3	<5	30	<5	<5	39	
2-W19-27	02NOV89		<5	<5	<5	7	<5	<5	11	
3-1-3	21NOV89		<5	17	<5	<5	<5	<5	36	
3-1-7	02JUN89 21NOV89 19DEC89		<5	20 17 19	<5 <5 <5	<5 <5 <5	<5 <5 <5	<5 <5 <5	43 37 25	
3-1-10	07JUN89 18DEC89		<5	20 21	<5 <5	<5 <5	<5 <5	<5 <5	35 25	
3-1-11	05JAN89 19JAN89 17FEB89 01MAR89 16MAR89 14JUN89 03AUG89 17AUG89 28AUG89 13SEP89 27SEP89 19DEC89		<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	16 18 16 15 14 31 20 23 25 20 22 26	<5 <2 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	<5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5 <5	74 .
3-1-12	02JUN89 18DEC89		<5 <5	33 21	<5 <5	<5 <5	<5 <5	<5 <5	66 41	
3-1-13	06JUN89 18DEC89		<5 <5	22 19	<5 <5	<5 <5	<5 <5	<5 <5	37 18	
3-1-14	06JUN89 18DEC89		<5 <5	26 16	<5 <5	<5 <5	<5 <5	<5 <5	45 34	
3-1-15	09JUN89 09JUN89 18DEC89	1	<5 <5 <5	16 16 <5	<5 <5 <5	<5 <5 <5	<5 <5 <5	<5 <5 <5	31 31 <1	

9 2 1 2 6 3 9 0 1 8 9

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
<b>3-1-16A</b>	13JAN89	.	.	.	.	.	.	.	21
	27JAN89	5	5	14	5	5	5	5	30
	07JUN89	5	5	17	5	5	5	5	30
	18DEC89	5	5	5	5	5	5	5	29
<b>3-1-16B</b>	13JAN89	.	.	.	.	.	.	.	54
	27JAN89	5	5	5	5	5	5	5	63
	07JUN89	5	5	5	5	5	21	79	63
	18DEC89	5	5	5	5	5	23	135	71
<b>3-1-16C</b>	13JAN89	.	.	.	.	.	.	.	44
	27JAN89	5	5	5	5	5	5	5	61
	07JUN89	5	5	5	5	5	5	5	45
<b>3-1-17A</b>	05JAN89	5	5	36	5	5	5	5	.
	19JAN89	5	5	17	5	5	5	5	.
	17FEB89	5	5	14	5	5	5	5	.
	01MAR89	5	5	13	5	5	5	5	.
	16MAR89	5	5	13	5	5	5	5	.
	10MAY89	5	5	14	5	5	5	5	.
	05JUN89	5	5	27	5	5	5	5	.
	03AUG89	5	5	20	5	5	5	5	.
	17AUG89	5	5	21	5	5	5	5	.
	28AUG89	5	5	23	5	5	5	5	.
	13SEP89	5	5	18	5	5	5	5	.
	27SEP89	5	5	18	5	5	5	5	.
	04OCT89	5	5	20	5	5	5	5	.
	10OCT89	5	5	17	5	5	5	5	.
	17OCT89	5	5	18	5	5	5	5	.
	24OCT89	5	5	18	5	5	5	5	.
	31OCT89	5	5	16	5	5	5	5	.
	07NOV89	5	5	21	5	5	5	5	.
	14NOV89	5	5	18	5	5	5	5	.
	21NOV89	5	5	16	5	5	5	5	.
	28NOV89	5	5	17	5	5	5	5	.
	05DEC89	5	5	16	5	5	5	5	.
	12DEC89	5	5	18	5	5	5	5	.
	19DEC89	5	5	22	5	5	5	5	.
	28DEC89	5	5	16	5	5	5	5	43
<b>3-1-17B</b>	05JUN89	5	5	5	5	5	5	8	21
	19DEC89	5	5	5	5	5	5	9	11
<b>3-1-17C</b>	05JUN89	5	5	5	5	5	5	5	12

9 2 1 2 6 3 9 0 1 9 0

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
3-1-18A	05JAN89	5	5	5	5	5	5	5	5
	19JAN89	5	5	5	5	5	5	5	5
	17FEB89	5	5	5	5	5	5	5	5
	01MAR89	5	5	5	5	5	5	5	5
	16MAR89	5	5	5	5	5	5	5	5
	10MAY89	5	5	5	5	5	5	5	5
	08JUN89	5	5	5	5	5	5	5	5
	03AUG89	5	5	5	5	5	5	5	5
	17AUG89	5	5	5	5	5	5	5	5
	28AUG89	5	5	5	5	5	5	5	5
	27SEP89	5	5	5	5	5	5	5	5
	18DEC89	5	5	5	5	5	5	5	5
3-1-18B	08JUN89	5	5	5	5	5	5	5	9
3-1-19	05JAN89	5	17	5	5	5	5	5	5
	19JAN89	5	14	5	5	5	5	5	5
	17FEB89	5	13	5	5	5	5	5	5
	01MAR89	5	13	5	5	5	5	5	5
	16MAR89	5	13	5	5	5	5	5	5
3-2-1	09JUN89	5	6	5	5	5	3	5	15
	19DEC89	5	16	5	5	5	5	5	26
3-2-2	09JUN89	5	16	5	5	5	11	5	33
3-3-7	16AUG89	5	5	5	5	5	3	5	10
	16AUG89	5	5	5	5	5	4	5	27
	19DEC89	5	8	5	5	5	4	5	20
3-3-9	12JUN89	5	22	10	5	5	5	5	35
	19DEC89	5	10	5	5	5	5	5	20
3-3-10	02JUN89	5	31	13	5	5	5	5	54
	19DEC89	5	13	5	5	5	5	5	17
3-4-1	12JUL89	5	7	13	5	5	5	5	20
	20DEC89	5	13	5	5	5	9	5	18
3-4-7	13JUN89	5	12	10	5	5	5	5	20
	20DEC89	5	10	5	5	5	5	5	16
3-4-11	06JUN89	5	15	10	5	5	3	5	28
	20DEC89	5	10	5	5	5	5	5	14

9 2 1 2 6 3 9 0 1 9 1

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
3-8-1	05JUN89 20DEC89	5 5	5 5	5 5	5 5	5 5	5 3	5 5	15 <7
3-8-2	13JUN89	5	5	5	5	5	5	5	11
3-8-3	14JUN89	5	5	5	5	5	3	5	<9
6-S43-E12	07FEB89 31MAY89 06NOV89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	12 23 20
6-S41-E13A	08FEB89 24MAY89 30MAY89 03NOV89	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	6 11 5
6-S41-E13B	08FEB89 30MAY89 06NOV89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 4 7
6-S40-E14	07FEB89 30MAY89 03NOV89	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	5 5 5	11 10 <7
6-S37-E14	08FEB89 31MAY89 06NOV89 06NOV89	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	5 5 5 5	7 34 22 .
6-S36-E13A	30JAN89 24MAY89	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
6-S32-E13A	17JAN89 24MAY89	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
6-S32-E13B	17JAN89 24MAY89	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
6-S31-E13	17JAN89 24MAY89	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5
6-S29-E12	17JAN89 24MAY89	5 5	5 5	5 5	5 5	5 5	5 5	5 5	5 5

9 2 | 2 6 3 9 0 | 9 2

TABLE C.4. (contd)

Well Name	Collection Date	Duplicate Sample Number, $\mu\text{g/L}$	1,1,1-trichloroethane, $\mu\text{g/L}$	Chloroform, $\mu\text{g/L}$	Perchloroethylene, $\mu\text{g/L}$	Carbon Tetrachloride, $\mu\text{g/L}$	Trichloroethylene, $\mu\text{g/L}$	Trans-dichloroethylene, $\mu\text{g/L}$	Total Organic Halogens, $\mu\text{g/L}$
6-23-34	11JAN89	.	.	.	.	.	.	.	37
	02MAR89	38	5	7	1	5	1	.	.
	19MAY89	38	5	9	1	5	1	.	54
	07AUG89	47	5	8	1	5	1	.	49
	10OCT89	37	5	7	1	4	1	.	.
	10OCT89	44	5	6	1	4	1	.	.
	25OCT89	42	5	8	1	5	1	.	.
6-24-33	10JAN89	.	.	.	.	.	.	.	44
	03MAR89	16	5	3	1	2	1	.	.
	18MAY89	16	5	4	1	3	1	.	94
	07AUG89	20	5	5	1	3	1	.	33
6-24-34A	10JAN89	.	.	.	.	.	.	.	29
	02MAR89	16	5	5	1	4	1	.	.
	19MAY89	21	5	5	1	3	2	.	38
	07AUG89	31	5	8	1	5	1	.	38
6-24-34B	10JAN89	.	.	.	.	.	.	.	32
	03MAR89	27	5	7	1	4	1	.	.
	19MAY89	32	5	9	1	5	1	.	48
	07AUG89	38	5	9	1	5	1	.	50
	10OCT89	36	5	9	1	4	1	.	.
6-24-34C	17JAN89	.	.	.	.	.	.	.	24
	03MAR89	19	5	3	1	2	1	.	.
	17MAY89	26	5	5	1	3	1	.	35
	07AUG89	25	5	6	1	3	1	.	25
	10OCT89	33	5	7	1	3	1	.	.
	25OCT89	22	5	5	1	3	1	.	.
6-24-35	10JAN89	.	.	.	.	.	.	.	3
	03MAR89	3	5	1	1	1	1	.	.
	18MAY89	3	5	1	1	1	1	.	11
	07AUG89	4	5	1	1	1	1	.	5
	07AUG89	4	5	1	1	1	1	.	6
	10OCT89	3	5	1	1	1	1	.	.
	25OCT89	3	5	1	1	1	1	.	.
6-25-33A	10JAN89	.	.	.	.	.	.	.	10
	04AUG89	.	.	.	.	.	.	.	1
	04OCT89	.	.	.	.	.	.	.	2

9 2 1 2 6 3 9.0 1 9 3

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
6-25-34A	09JAN89		.	.	.	.	.	.	<8
	03AUG89		.	.	.	.	.	.	<6
	04OCT89		.	.	.	.	.	.	<4
6-25-34B	09JAN89		.	.	.	.	.	.	<6
	03AUG89		.	.	.	.	.	.	<9
	04OCT89		.	.	.	.	.	.	11
6-25-34C	10JAN89		.	.	.	.	.	.	11
	03MAR89	4	5	5	1	1	1	1	•
	18MAY89	5	5	5	1	1	1	1	6
	07AUG89	7	5	5	1	1	1	1	7
	10OCT89	7	5	5	1	1	1	1	•
	25OCT89	6	5	5	1	1	1	1	•
6-26-33	10JAN89		.	.	.	.	.	.	<3
	04AUG89		.	.	.	.	.	.	<7
	04OCT89		.	.	.	.	.	.	<4
6-26-34	10JAN89		.	.	.	.	.	.	<2
	04AUG89		.	.	.	.	.	.	<2
	04OCT89		.	.	.	.	.	.	<3
6-26-35A	09JAN89		.	.	.	.	.	.	<2
	04AUG89		.	.	.	.	.	.	10
	04OCT89		.	.	.	.	.	.	<4
6-26-35C	09JAN89		.	.	.	.	.	.	<3
	04AUG89		.	.	.	.	.	.	<2
	04OCT89		.	.	.	.	.	.	<2
6-39-79	23FEB89		5	6	5	820	5	5	•
	23FEB89	1	5	6	5	880	5	5	•
	23FEB89	2	5	6	5	850	5	5	•
6-40-39	05DEC89		5	5	5	5	5	5	<9
6-41-40	05DEC89		5	5	5	5	5	5	10
6-42-40A	15FEB89		5	5	5	5	5	5	<7
	31MAY89		5	5	5	5	5	5	15
	10AUG89		5	5	5	5	5	5	<4
6-42-40B	11DEC89		5	5	5	5	5	5	<6

9 2 1 2 6 3 9 0 1 9 4

TABLE C.4. (contd)

<u>Well Name</u>	<u>Collection Date</u>	<u>Duplicate Sample Number, <math>\mu\text{g/L}</math></u>	<u>1,1,1-trichloroethane, <math>\mu\text{g/L}</math></u>	<u>Chloroform, <math>\mu\text{g/L}</math></u>	<u>Perchloroethylene, <math>\mu\text{g/L}</math></u>	<u>Carbon Tetrachloride, <math>\mu\text{g/L}</math></u>	<u>Trichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Trans-dichloroethylene, <math>\mu\text{g/L}</math></u>	<u>Total Organic Halogens, <math>\mu\text{g/L}</math></u>
6-42-42B	24FEB89	1	5	5	5	5	5	5	5
	16JUN89		5	5	5	5	5	5	4
	16JUN89		5	5	5	5	5	5	4
	09AUG89		5	5	5	5	5	5	64
6-43-41E	05DEC89		5	5	5	5	5	5	26
6-43-41F	05DEC89		5	5	5	5	5	5	19
6-43-42J	24FEB89	1	5	5	5	5	5	5	5
	15JUN89		5	5	5	5	5	5	5
	09AUG89		5	5	5	5	5	5	5
	09AUG89		5	5	5	5	5	5	5
6-43-43	24FEB89	1	5	5	5	5	5	5	5
	24FEB89		5	5	5	5	5	5	5
	15JUN89		5	5	5	5	5	5	5
	09AUG89		5	5	5	5	5	5	10
6-43-45	06DEC89		5	5	5	5	5	5	5
6-44-42	17FEB89		5	5	5	5	5	5	5
	15JUN89		5	5	5	5	5	5	5
	08AUG89		5	5	5	5	5	5	5
6-44-43B	20DEC89	1	5	5	5	5	5	5	5
	20DEC89		5	5	5	5	5	5	5
6-77-36	20JAN89	1	5	5	5	5	5	32	.
	20JAN89		5	5	5	5	5	30	.
	20JAN89		5	5	5	5	5	29	.
6-81-58	03MAR89		5	5	5	5	5	5	5
	18SEP89		5	5	5	5	5	5	5
	28NOV89		5	5	5	5	5	5	5
11-41-13C	30JAN89		8	5	5	5	5	5	.

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